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Battery-, Loop-, and AC-Powered digital Pressure Gauges



Optional NIST Available On DPG1001 Models

See Page G-16 for Ordering Information

- Three power options: Battery, Loop, or AC / DC
- Vacuum to 5000 psi ranges
- \pm 0.25 % and \pm 0.10 % accuracy models
- 316 SS wetted parts
- Loop test function
- Easy-to-Read 3 ½ digit LCD
- Pressure or vacuum applications
- Rugged aluminum or NEMA 4X (IP66) case

The DPG1000 Series is a versatile family of industrial pressure / vacuum gauges. All DPG1000 models feature a large 13 mm ($\frac{1}{2}$ ") high digital display in a rugged, splash-proof, extruded, aluminum case.

A $\frac{1}{4}$ - 18 NPT 316 stainless steel fitting is standard for the pressure connection. Media compatibility includes all liquids and gases compatible with 316 SS.

The DPG1000B Series features a wide operating temperature range of - 20 to 85 °C (-4 to 185 °F). Many standard pressure / vacuum ranges (in a choice of engineering units) with both gauge and absolute references are available. The series also features \pm 2x overpressure, and 4x burst specifications, and are available with either 0.25 % or 0.10 % accuracy.

DPG1000AD (AC / DC Powered)

The DPG1000AD is powered by either 8 to 24 V AC, or 9 to 32 V DC. No recalibration is needed, and no jumpers have to be moved to use either AC or DC power within the specified range. No polarity needs to be observed when connecting a DC supply. Therefore,

a DC supply. Therefore, the DPG1000AD can be used with inexpensive, unregulated AC or DC power sources in

applications requiring continuous pressure display.



DPG1000AD-30G shown smaller than actual size



DPG1000B (Battery Powered)

The DPG1000B is powered by standard AA batteries that can operate the gauge for approximately 2500 hours. All DPG1000B models include a standard 5 minute auto shutoff feature to conserve battery life. Low-battery indication is also standard. An optional rubber boot (DPG1000-RB) is available. Requiring no electrical connection, the

DPG1000B works equally well in portable or fixed applications.

DPG1000L-300G shown smaller than actual size

Visit omega. com for Pressure Snubbers



DPG1000L (Loop Powered)

All operating power for the DPG1000L gauge is supplied by the 4 to 20 mA output loop. This "2-wire" connection lets the DPG1000L operate as a digital indicating transmitter in any 4 to 20 mA current loop application. Individual, noninteractive controls are available for the zero/span display and the output loop 4 to 20 mA settings. Connection to the DPG1000L is made via a 2-conductor cable at the back of the gauge.

A front-accessible TEST push button switches the display and output loop to a preset level determined by the setting of a "Test Calibration" potentiometer. This feature allows easy testing of the display and process loop with a preset input signal in place of the actual input. The DPG1000L also includes "low loop" warning circuitry. This circuitry indicates on the display when the loop supply voltage falls below a level that may not be sufficient to drive a full 20 mA into the loop load resistance. These 2 proprietary features make the

Battery-, Loop-, and AC-Powered Digital Pressure Gauges



Specifications

Power: 2 "AA" batteries (included), provide

B Models: Up to 2500 hr life typically; auto shut-off: 5 min; LOBAT indication

L Models: 8 to 32 V DC at gauge; reverse polarity protected

AD Models: 8 to 24 V AC 50 to 60 Hz or 9 to 32

V DC; 5 mA max

Pressure / Vacuum Reference: Gage (psig) or absolute (psia) **Optional Units:** Gauge can be factory scaled to any engineering unit such as: psi, kPa, bar, mbar, inHg, inH₂O, mmHg, ftH₂O, torr, kg/cm²

Display Type/Size: LCD, 13 mm (0.5 ") digit height, 3 readings per second

Controls and Location:

B and AD models: Display zero / span, non-interactive, \pm 15 % range; top-accessible, multi-turn potentiometers **L Models:** Display zero/span, non-interactive, \pm 15 % range; test calibration level, 0 to 100 % range; top-accessible, multi-turn potentiometers; loop 4 mA and 20 mA internal potentiometers

Accuracy:

DPG1000/1100: \pm 0.25 % FSO or better, \pm 1 least significant digit (includes linearity, hysteresis, repeatability)

DPG1001: ± 0.10 % FSO or better, ± 1 least significant digit (includes linearity, hysteresis, repeatability)

Temperature Stability [25 °C (77 °F)]:

DPG1000/1100: \pm 0.25 % FSO or better, \pm 1 least significant digit (includes linearity, hysteresis, repeatability) \pm 1 % FS for offset and span, 0 to 70 °C (32 to 158 °F) typical; \pm 2 % FS for offset and span, 0 to 70 °C (32 to 158 °F) typical for 3 and 5 psi range

DPG1001: \pm 0.003 % FSO or better, \pm 1 least significant digit (includes linearity, hysteresis, repeatability); optional NIST traceable certificate included

Operating Temperature: -20 to 85° C (-4 to 185° F) Compensated Temperature: 0 to 70° C (32 to 158° F) Storage Temperature: -55 to 95° C (-67 to 203° F) Weight: Approx. 255 g (9 oz)

Standard Case: Extruded aluminum case, epoxy powder coated; poly-carbonate cover, front and rear gaskets

NEMA 4X Case (DPG1100 models): UV stabilized polycarbonate/ABS case, clear polycarbonate window, ansketed rear cover captive SS screws

DPG1100B-1KG
with NEMA 4X case
shown smaller than
actual size

To order NEMA 4X
case, specify model
number DPG1100

a DwyerOmega brand

Pressure/Vacuum Connection: 316 SS, 1/4 - 18 MNPT

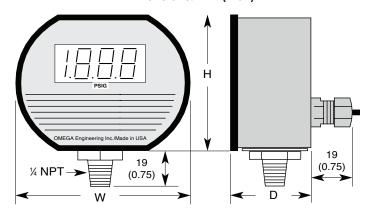
Wetted Parts: 316 SS

Electrical Connection: 0.9 m (3') 2-conductor 22 AWG cable

(none required on DPG1000B)

Overpressure: 2x rated pressure min **Burst Pressure:** 4x rated pressure min

Dimensions: mm (inch)



Dimensions: mm (inch)

	W	Н	D
Std Case	86 (3.38)	73 (2.88)	42 (1.65)
NEMA 4X	89 (3.5)	76 (3.0)	51 (2.0)

Options

Order Suffix	Description
-F10	10 min auto shut-off for DPG1000B units
-F30	30 min auto shut-off for DPG1000B units
-NS	No auto shut-off for DPG1000B units
BL	Backlit display*

*Not available with DPG1000L models, with compound range "30 V 100 G" models, or with DPGL1001 models.

Accessories

Model No.	Description
DPG1000-PS	Wall mount 115 V AC power supply for DPG1000AD units
DPG1000-RB	Rubber boot for DPG1000B units

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a DwyerOmega brand

To Order	.0050/ 1		. 0 10 0/ 4		
Range (PSI)	± 0.25 % Accuracy Standard Case	± 0.25 % Accuracy NEMA 4X Case	± 0.10 % Accuracy Standard Case		
Battery Powered					
-30 inHg to 100.0	DPG1000B-30V100G	DPG1100B-30V100G	-		
0 to 5.00	DPG1000B-05G	DPG1100B-05G	DPG1001B-05G		
0 to 15.00	DPG1000B-15G	DPG1100B-15G	DPG1001B-15G		
0 to 30.0	DPG1000B-30G	DPG1100B-30G	-		
0 to 60.0	DPG1000B-60G	DPG1100B-60G	DPG1001B-60G		
0 to 100.0	DPG1000B-100G	DPG1100B-100G	DPG1001B-100G		
0 to 300	DPG1000B-300G	DPG1100B-300G	-		
0 to 500	DPG1000B-500G	DPG1100B-500G	DPG1001B-500G		
0 to 1000	DPG1000B-1KG	DPG1100B-1KG	DPG1001B-1KG		
0 to 2000	DPG1000B-2KG	DPG1100B-2KG	-		
0 to 3000	DPG1000B-3KG	-	-		
0 to 5000	DPG1000B-5KG	-	-		
Loop Powered - Backlight N	Not Available				
0 to 5.00	DPG1000L-05G	DPG1100L-05G	DPG1001L-05G		
0 to 15.00	DPG1000L-15G	DPG1100L-15G	DPG1001L-15G		
0 to 30.0	DPG1000L-30G	DPG1100L-30G	-		
0 to 60.0	DPG1000L-60G	DPG1100L-60G	DPG1001L-60G		
0 to 100.0	DPG1000L-100G	DPG1100L-100G	DPG1001L-100G		
0 to 300	DPG1000L-300G	DPG1100L-300G	-		
0 to 500	DPG1000L-500G	DPG1100L-500G	DPG1001L-500G		
0 to 1000	DPG1000L-1KG	DPG1100L-1KG	DPG1001L-1KG		
0 to 2000	DPG1000L-2KG	DPG1100L-2KG	-		
0 to 3000	DPG1000L-3KG	-	-		
0 to 5000	DPG1000L-5KG	-	-		
AC / DC Powered					
-30 inHg to 100.0	DPG1000AD-30V100G	DPG1100AD-30V100G	-		
0 to 5.00	DPG1000AD-05G	DPG1100AD-05G	DPG1001AD-05G		
0 to 15.00	DPG1000AD-15G	DPG1100AD-15G	DPG1001AD-15G		
0 to 30.0	DPG1000AD-30G	DPG1100AD-30G	-		
0 to 60.0	DPG1000AD-60G	DPG1100AD-60G	DPG1001AD-60G		
0 to 100.0	DPG1000AD-100G	DPG1100AD-100G	DPG1001AD-100G		
0 to 300	DPG1000AD-300G	DPG1100AD-300G	-		
0 to 500	DPG1000AD-500G	DPG1100AD-500G	DPG1001AD-500G		
0 to 1000	DPG1000AD-1KG	DPG1100AD-1KG	DPG1001AD-1KG		
0 to 2000	DPG1000AD-2KG	DPG1100AD-2KG	-		
0 to 3000	DPG1000AD-3KG	-	-		
0 to 5000	DPG1000AD-5KG	_	_		

Comes complete with operator's manual. DPG1001 models also include NIST-traceable calibration certificate.

Ordering Examples: DPG1000B-100G, $\pm 0.25\%$ battery-powered digital gauge, 0 to 100.0 psig range. DPG1000BBL-60G, battery-powered $\pm 0.25\%$ unit, 60 psi range.

DPG1001L-500G, ± 0.1 % loop-powered digital gauge, 0 to 500 psig range.

^{15, 30} and 100 psi models available with absolute pressure range on DPG1000B models. Change model number from "-15G" to "-15A",

[&]quot;-30G" to "-30A", or "-100G" to "-100A", and add additional cost to price.

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DPG1000ADA

AC/DC Powered with **Dual Alarms**

SPECIFICATIONS

Accuracy: ±0.25% FSO or better, ±1 least-significant digit (includes linearity, hysteresis, repeatability)

Controls and Location: Display zero/ span, non-interactive, ±15% range; setpoint 1 and setpoint 2, 0 to 100% range; top-accessible, multiturn potentiometers

Alarm Deadbands (Hysteresis): 1% of

FSO, standard

Alarm Outputs: Dual form "C" (SPDT) relay contacts; individual setpoint 1 and setpoint 2 settings via top-accessible multiturn potentiometers; high/low alarm configuration standard, others available; relay contacts rated 1 A/24 Vdc, 0.5 A/115 Vac, non-inductive

Alarm Indicators: Bicolor (red/green) LEDs on front panel DPG1000ADA-300G-1N shown actual size.

Test Function: Front-panel TEST button, when depressed, toggles both SP1 and SP2 alarm status, independent of pressure input, to allow testing of system operation

Alarm Response Time:

100 ms typical

Power: Any AC source of 8 to 24 Vac, 50/60 Hz, or any DC source of 9 to 32 Vdc, 1.0 W maximum; optional wall-mount power supply available to operate on 115 Vac

(DPG1000-PS)



Electrical Connection: 0.9 m (3') long, 2-conductor 22 AWG cable for power; 0.9 m (3'), 6-conductor 22 AWG cable

for alarm contacts

Sensor: Precision oil-filled silicon

DPG1000DAR **DC** Powered with Dual Alarms and 4 to 20 mA Output

SPECIFICATIONS

Accuracy: ±0.25% FSO or better, ±1 least-significant digit (includes linearity, hysteresis, repeatability)

Controls and Location: Display zero/ span, non-interactive, ±15% range; setpoint 1 and setpoint 2, 0 to 100% range; test calibration level, 0 to 100% range; top-accessible, multiturn potentiometers analog output zero/span; internal potentiometers

Alarm Deadbands (Hysteresis): 1% of FSO, standard

Alarm Outputs: Dual form "C" (SPDT) relay contacts; individual setpoint 1 and setpoint 2 settings via top-accessible multiturn potentiometers; high/low alarm configuration standard; relay contacts rated 1 A/24 Vdc, 0.5 A/115 Vac, non-inductive

Alarm Indicators: Bi-color (red/green) LEDs on front panel

Alarm Response Time: 100 ms typical Analog Output: 4 to 20 mA DC: output drive (compliance) determined by power source

Analog Output Response Time: 50 ms, typical

Test Function:

Front-panel TEST button, when depressed, toggles both SP1 and SP2 alarm status and simultaneously sets display and analog output to "calibration" level, independent of pressure input, to allow testing system operation

Power: Any DC source of 9 to 32 Vdc, 1.0 W maximum

Electrical Connection:

0.9 m (3') long, 4-conductor 22 AWG shielded cable for power and retransmitted output; 0.9 m (3') long, 6-conductor 22 AWG cable for alarm contacts.



DPG1000DAR-300G-1N shown actual size.

Using the DPG1000ADA and **DPG1000DAR Alarm Outputs**

Normal (Fail-safe) vs. Reverse Action—The convention for alarm action is that with the normal or fail-safe configuration, the alarm output relays will be CLOSED (relay energized) for a clear or non-alarm condition and OPEN (relay not energized) for an alarm condition. This is primarily for users who require an alarm condition if the gauge loses power or suffers a catastrophic failure. In the wiring diagrams, the normally closed and normally open designations refer to standard relay terminology (i.e., the relay contact status with the relay coil not energized).

Therefore, with the normal (fail-safe) configuration in a green or non-alarm condition, the relay will be energized so that continuity can be expected between the common and normally open leads. In a red or alarm condition, the relay will be open (not energized) so that continuity can be expected between the common and normally closed leads.

Contact Rating and Protection

The contacts of the alarm relays are rated at 1 A/24 Vdc or 0.5 A/ 115 Vac. Switching loads greater than the rating, or switching large inductive loads, will shorten the useful life of the contacts. In lowlevel switching or with dry contacts, the user should consider whether external contact protection, such as snubber networks or arc suppression networks, is required to protect the contacts.

In addition, no internal fusing is included in the DPG1000 contact circuits. The circuit external to the gauge alarm outputs should be fused by the user in applications in which good design dictates this practice.

Using the DPG1000DAR Analog Output

The analog output is easy to use if a few system considerations are observed. The DPG1000DAR is DC powered, with the gauge power supply (-) tied to the 4 to 20 mA (-). Therefore, the DC supply (-) lead should be considered common with

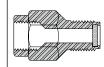
regard to the analog output (–) or ground connection in the user's system.

Be sure to observe the output compliance (voltage drive) capabilities of the gauge. The compliance, and therefore the maximum loop resistance the output can drive, is a function of the supply voltage to the gauge. Consult the manual for maximum loop resistance vs. supply voltage. Too large a loop resistance will cause the gauge output to "limit" or saturate before reaching its full 20 mA output.

AL	ALARM CONFIGURATIONS					
1		HI/LO (standard)				
2		HI/HI				
3		LO/LO				
	N	Normal acting (standard)				
	R	Reverse acting				



DPG1000ADA-300G-1N shown smaller than actual size.



14 NPT Pressure Snubbers

PS-4G = Gas

PS-4E = Lt Oil PS-4D = Dense Lq

To Order							
RANGE (psi)	MODEL NO.	COMPATIBLE METERS					
AC/DC POWERED/DUAL ALARMS							
0 to 15.00	DPG1000ADA-15G-1N	N/A					
0 to 30.00	DPG1000ADA-30G-IN	N/A					
0 to 100.0	DPG1000ADA-100G-1N	N/A					
0 to 300	DPG1000ADA-300G-1N	N/A					
0 to 500	DPG1000ADA-500G-1N	N/A					
0 to 1000	DPG1000ADA-1KG-1N	N/A					
DC POWERED	/DUAL ALARMS/ANALOG O	JTPUT					
0 to 15.00	DPG1000DAR-15G-1N	DP41-E, DP25B-E, DP24-E					
0 to 30.00	DPG1000DAR-30G-IN	DP41-E, DP25B-E, DP24-E					
0 to 100.0	DPG1000DAR-100G-1N	DP41-E, DP25B-E, DP24-E					
0 to 300	DPG1000DAR-300G-1N	DP41-E, DP25B-E, DP24-E					
0 to 500	DPG1000DAR-500G-1N	DP41-E, DP25B-E, DP24-E					
0 to 1000	DPG1000DAR-1KG-1N	DP41-E, DP25B-E, DP24-E					

Comes complete with operator's manual.

Note: To order another alarm configuration, replace "-1N" with alarm configuration from table above.

Ordering Examples: DPG1000ADA-100G-1N, AC/DC-powered unit with range of 0 to 100.0 psig and standard-acting dual alarms in the HI/LO configuration. DPG1000DAR-100G-1N, DC-powered unit with range of 0 to 100.0 psig, analog output

and standard-acting dual alarms in the HI/LO configuration.

Units available with 15 and 100 psi absolute pressure range. Change "15G" in model number to "15A" or "100G" to "100A" and add additional cost to price.

ACCESSORY

MODEL NO.	DESCRIPTION
DPG1000-PS	Wall mount 115 Vac power supply for DPG1000ADA units

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PRESSURE GAUGES WITH NIST CERTIFICATION

Three Power Options: Battery Powered, Loop Powered, AC/DC Powered

DPG1001 Series



- NIST Certification Included
- ✓ High-Accuracy ±0.10% Test Gauge
- ✓ 316 SS Wetted Parts
- ✓ Easy-to-Read 3½ Digit LCD
- Rugged Aluminum Case

The DPG1001 Series is a versatile family of industrial pressure gauges. All DPG1001 models feature a large 13 mm H (½") digital display in a rugged, splashproof extruded aluminum case.

A 1/4-18 NPT 316 stainless steel fitting is standard for the pressure connection. Media compatibility includes all liquids and gases compatible with 316 SS.

The DPG1001B features a wide operating temperature range of -20 to 85°C (-4 to 185°F). Many standard pressure ranges are available. The DPG1001 Series also features ±0.10% accuracy, 2x overpressure, and 4x burst specifications.

DPG1001AD (AC/DC Powered)

The DPG1001AD is powered by any AC source of 8 to 24 Vac 50/60 Hz or any DC source of 9 to 32 Vdc. No recalibration is needed. and no jumpers have to be moved to use either AC or DC power within the specified range. No polarity needs to be observed when connecting a DC supply. Therefore, the DPG1001AD can be used with inexpensive, unregulated AC or DC power sources in applications requiring



DPG1001B-100G shown smaller than actual size.

DPG1001B (Battery Powered)

The DPG1001B is powered by replaceable batteries that can operate the gauge for approximately 2500 hours. All DPG1001B models include standard auto shut-off circuitry to conserve battery life. A low-battery indication is also standard. An optional rubber boot (DPG1000-RB) is available as well.

EOMEGA.

Requiring no electrical connection, the DPG1001B is equally suited to portable or fixed applications.



(Loop Powered)

size.

All operating power for the DPG1001L gauge is supplied by the 4 to 20 mA output loop. This "2-wire" connection allows the DPG1001L to be used as a digital indicating transmitter in any 4 to 20 mA current loop application. Individual, non-interactive controls are available for the zero/ span display and the output loop 4 to 20 mA settings. Connection to the DPG1001L is made via a 2-conductor cable at the back of the gauge.

A front-accessible TEST pushbutton switches the display and output loop to a preset level determined by the setting of a "Test Calibration" potentiometer. This feature allows easy testing of the display and process loop with a préset input signal in place of the actual input. The DPG1001L also includes "low loop" warning circuitry. This circuitry indicates on the display when the loop supply voltage falls below a level that may not be sufficient to drive a full 20 mA into the loop load resistance. These 2 proprietary features make the shown smaller than actual size. DPG1001L easier to set up and maintain.

continuous pressure display. Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

HIGH-ACCURACY DIGITAL PRESSURE GAUGES

SPECIFICATIONS

Power:

DPG1001B: 2 "AA" batteries (included) provide up to 2500 hr life typically; auto shut-off: 5 minutes; LOBAT indication

DPG1001L: 8 to 32 Vdc at gauge; reverse polarity protected **DPG1001AD:** 8 to 24 Vac 50/60 Hz

or 9 to 32 Vdc; 5 mA max Standard Ranges: 0 to 5.00 0 to 15.00, 0 to 100.0, 0 to 500,

0 to 1000 psi gauge

Display Type/Size: LCD, 13 mm (0.5") digit height, 3 readings per second

Controls and Location: DPG1001B and DPG1001AD:

Display zero/span, non-interactive, ±15% range; top-accessible, multiturn potentiometers DPG1001L: Display zero/span, non-interactive, ±15% range; test calibration level, 0 to 100% range; top-accessible, multiturn potentiometers; loop 4 mA and 20 mA internal potentiometers

Accuracy: ±0.10% FSO or better, ±1 least-significant digit (includes linearity, hysteresis, repeatability); NIST certificate included

Temperature Stability: ±0.003% of span per °C (typical) ±0.01% of span per °C (max) 0 to 70°C (-18 to 158°F)

Storage Temperature: -55 to 95°C (-67 to 203°F)

Operating Temperature: -20 to 85°C (-4 to 185°F)

Compensated Temperature: 0 to 70°C (32 to 158°F)

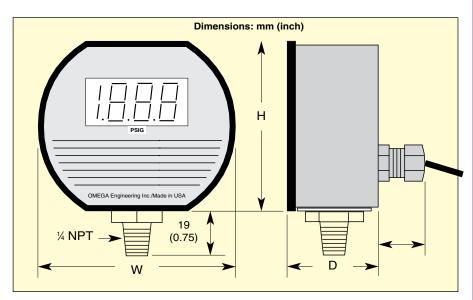
Weight: Approx. 255 g (9 oz) Standard Case: Extruded aluminum case, epoxy powder coated; polycarbonate cover, front and rear gaskets

Pressure Connection: 316 SS, 1/4-18 MNPT Wetted Parts: 316 SS

Electrical Connection: 0.9 m (3') 2-conductor 22 AWG cable (none

required on DPG1001B)

Overpressure: 2x rated pressure min Burst Pressure: 4x rated pressure min



Dimensions: mm (inch)

	W	H	D
Standard Case	86 (3.38)	73 (2.88)	42 (1.65)

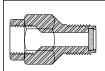
To Order Visit omega.com/dpg1001 for Pricing and Details							
RANGE (psi)	MODEL NO.	COMPATIBLE METERS					
BATTERY POWE	RED - STANDARD CASE						
0 to 5.00	DPG1001B-05G	N/A					
0 to 15.00	DPG1001B-15G	N/A					
0 to 100.0	DPG1001B-100G	N/A					
0 to 500	DPG1001B-500G	N/A					
0 to 1000	DPG1001B-1KG	N/A					
LOOP POWERED	- STANDARD CASE						
0 to 5.00	DPG1001L-05G	DP41-E, DP25B-E, DP24-E					
0 to 15.00	DPG1001L-15G	DP41-E, DP25B-E, DP24-E					
0 to 100.0	DPG1001L-100G	DP41-E, DP25B-E, DP24-E					
0 to 500	DPG1001L-500G	DP41-E, DP25B-E, DP24-E					
0 to 1000	DPG1001L-1KG	DP41-E, DP25B-E, DP24-E					
AC/DC POWEREI	D - STANDARD CASE						
0 to 5.00	DPG1001AD-05G	N/A					
0 to 15.00	DPG1001AD-15G	N/A					
0 to 100.0	DPG1001AD-100G	N/A					
0 to 500	DPG1001AD-500G	N/A					
0 to 1000	DPG1001AD-1KG	N/A					

Comes complete with operator's manual.

To order wall-mount 115 Vac power supply, specify DPG1000-PS.

Custom ranges not available.

Ordering Example: DPG1001B-100G, high-accuracy battery-powered digital gauge with a range of 0 to 100.0 psig, NIST certificate included.



1/4 NPT Pressure **Snubbers**

PS-4G = Gas PS-4E = Lt Oil PS-4D = Dense Lq

ACCESSORY

MODEL NO.	DESCRIPTION
DPG1000-PS	Wall-mount 115 Vac power supply

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WITH SELECTABLE ENGINEERING UNITS AND MEASUREMENT MEMORY

0-3 to 0-5000 psi Range Gauge, Compound Gauge, Absolute and Vacuum Models Available

DPG2001B Series

- ✓ 316 SS Wetted Parts
- Selectable Engineering Units
- Selectable Auto Shutoff Times
- ✓ Front Zero Function
- ✓ Memory up to 6 Readings
- 4-Digit Display with **5 Character Alphanumerics**
- Optional Backlit Display
- ✓ Optional NEMA 4X Case

OMEGA's DPG2001B Series digital pressure gauges are high accuracy battery powered gauges that include many premium functions at no extra cost. Options are available for a NEMA 4X case and backlighting Each unit has a dual display (digital and alphanumeric), memory for 6 readings, front panel auto zero, auto shutoff from 1 minute to 8 hours, and up to 15 selectable engineering units depending upon the range.

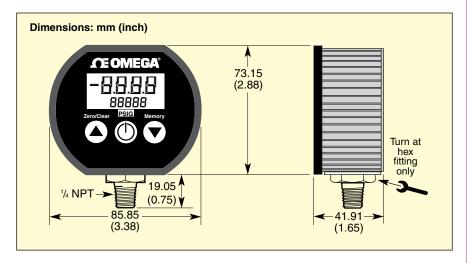
SPECIFICATIONS

Power: 2 AA batteries (included) **Battery Life:** Approx. 2000 hrs or with backlighting (red): 150 to 1500 hours. depending upon use of backlighting Accuracy: ±0.25% FS ±1 digit (includes

linearity, hysteresis and repeatability) Display: 4 digit, 0.5" H and 5 character

0.25" H alphanumeric





Auto Shutoff: 1 minute to 8 hours, or front button ON/OFF. Factory default is 5 minutes

Overpressure:

5000 psi Range: 7500 psi 3000 psi Range: 5000 psi

All Other Ranges: 2X pressure range Overpressure Display: i---- or i -.-.-Burst Pressure: 4X pressure range or

10.000 psi. whichever is less

Storage Temperature: -40 to 95°C

(-40 to 203°F)

Operating Temperature: -20 to 85°C

(-4 to 185°F)

Compensated Temperature: 0 to 70°C

(32 to 158°F)

Material: Extruded aluminum case, epoxy powder coated, ABS/polycarbonate bezel, front and rear gaskets, polycarbonate

label

NEMA 4X: ABS/Polycarbonate NEMA 4X case, rear gasket, polycarboinate label

Pressure Connection: 1/4 NPT male

fitting, 316L SS

Media Compatibility: Liquids and gases compatible with 316L SS

Dimensions: 86 L x 73 H x 42 mm D (3.38 x 2.88 x 1.65") **Weight:** 250 g (8.8 oz)

OPTIONS

Backlighting: Add suffix "-BL" to standard battery powered model, add additional cost

to price

NEMA 4X Case: Change model number to DPG2004, add additional cost to price

RANGE CODE		SELECTABLE ENGINEERING UNITS														
03	psi	inHg	inH₂O	oz/in²	g/cm ²	mmHg	torr	mbar	bar	mmH ₂ O	cmH ₂ O	ftH ₂ O	kPa		kg/cm ²	atm
05	psi	inHg	inH ₂ O	oz/in²	g/cm ²	mmHg	torr	mbar	bar	mmH ₂ O	cmH ₂ O	ftH ₂ O	kPa		kg/cm ²	atm
15	psi	inHg	inH₂O	oz/in²	g/cm ²	mmHg	torr	mbar	bar		cmH ₂ O	ftH ₂ O	kPa	MPa	kg/cm ²	atm
30	psi	inHg	inH₂O	oz/in²	g/cm ²	mmHg	torr	mbar	bar		cmH ₂ O	ftH ₂ O	kPa	MPa	kg/cm ²	atm
60	psi	inHg	inH₂O	oz/in²	g/cm ²	mmHg	torr	mbar	bar		cmH ₂ O	ftH ₂ O	kPa	MPa	kg/cm ²	atm
100	psi	inHg	inH₂O	oz/in²	g/cm ²	mmHg	torr	mbar	bar		cmH ₂ O	ftH ₂ O	kPa	MPa	kg/cm ²	atm
200	psi	inHg	inH ₂ O	oz/in²					bar			ftH ₂ O	kPa	MPa	kg/cm ²	atm
300	psi	inHg		oz/in²					bar			ftH ₂ O	kPa	MPa	kg/cm ²	atm
500	psi	inHg							bar			ftH ₂ O	kPa	MPa	kg/cm ²	atm
1000	psi	inHg							bar			ftH ₂ O	kPa	MPa	kg/cm ²	atm
2000	psi	inHg							bar			ftH ₂ O		MPa	kg/cm ²	atm
3000	psi	inHg							bar			ftH ₂ O		MPa	kg/cm ²	atm
5000	psi								bar					MPa	kg/cm ²	atm



DPG2001B-300G shown smaller than actual size with customer installed pipe fitting.

To Order	
	BATTERY POWERED
RANGE	MODEL NO.
ABSOLUTE PRESSURE,	VACUUM AND COMPOUND RANGES
15.00 to 0 psia	DPG2001B-15A
0 to 15.00 psiv	DPG2001B-15VAC
±15.00 psig	DPG2001B-15V15G
30.00 to 0 psia	DPG2001B-30A
100.0 to 0 psia	DPG2001B-100A
-15.0 to 100.0 psig	DPG2001B-15V100G
-15.0 to 200.0 psig	DPG2001B-15V200G
GAUGE PRESSURE	
0 to 3.000 psig	DPG2001B-03G
0 to 5.000 psig	DPG2001B-05G
0 to 15.00 psig	DPG2001B-15G
0 to 30.00 psig	DPG2001B-30G
0 to 60.00 psig	DPG2001B-60G
0 to 100.0 psig	DPG2001B-100G
0 to 200.0 psig	DPG2001B-200G
0 to 300.0 psig	DPG2001B-300G
0 to 500.0 psig	DPG2001B-500G
0 to 1000 psig	DPG2001B-1000G
0 to 2000 psig	DPG2001B-2000G
0 to 3000 psig	DPG2001B-3000G
0 to 5000 psig	DPG2001B-5000G
OPTIONS*	DESCRIPTION
-BL	Backlighting (red)
DPG2004B-(range)	NEMA 4X case
-NIST	5-point NIST calibration

Comes complete with operator's manual and 2 "AA" batteries.

* To order with optional backlighting add suffix "-BL" to model number and additional cost to the price; To order with optional 5-point NIST calibration "-NIST" to model number and additional cost to price.

Ordering Examples: DPG2004B-15V15G, ±15 psig digital gauge in NEMA 4X case with selectable units and memory.

DPG2001B-100G, 100 psig digital gauge in standard case with selectable units and memory.

Pressure Calibration Kit

- ✓ Full kit with pressure gauge and hand pump for easy field calibration
- √ High accuracy of 0.05% FS provides a reliable reference
- ✓ Displays ambient temperature and maximum and minimum values of the data
- √ 5-digit primary display and secondary display
- ✓ 10 pressure units available: MPa/KPa/psi/bar/pa/mBAR/m mHg/mH20/Torr/kgf/cm²

Overview

The DPG210-KIT pressure calibration kits combine the high accuracy of our DPG210 digital pressure gauges with a pneumatic or hydraulic hand pump, providing an excellent solution for field calibration needs. Kits include the DPG210 digital gauge in your selected pressure range, hand pump, rugged carrying case, and a selection of fittings and hose. Kits with ranges of 500 psi or below include a pneumatic hand pump capable of generating 0 to 500 psi pressure. For ranges of 1,000 psi or higher, a 0 to 10,000 psi hydraulic hand pump is included.

Specifications

Operating Temperature: -10 to 50°C (14 to 120°F)

Compensation Temperature: 0 to 40°C

(32 to 104°F)

Storage Temperature: -20 to 60°C (-4 to

140°F)



Temperature Accuracy: ± 0.5°C **Pressure Accuracy:** ± 0.05% FS

Stability: ±0.2%FS/year

Over Pressure Limits: 3X Rated Pressure from 0 to 100 psi, 2X Rated Pressure from

200 to 5000 psi

Burst Pressure: 4X Rated Pressure from 0 to 100 psi, 3X Rated Pressure from 200

to 5000 psi

Sampling Rate: Adjustable: 1-10

times/second

Battery Life: up to 3,600 hours **Environmental Rating:** IP65 **Compatible Process Media:** Non-

corrosive gas, water, oil

Process Connection/Material: ¼" NPT (others consult Omega Sales), 304SS Pressure Gauge Case Material: 304SS

Display Type: 5 digit LCD

Weight: 10.25 lb

Digital Pressure Gauge

- Log up to 10,000 data points
- USB output and software included for easy data retrieval
- Visual bar display of pressure usage of full scale
- Large display with bright backlight for high visibility
- Recommended alternative to DPG4000 Series



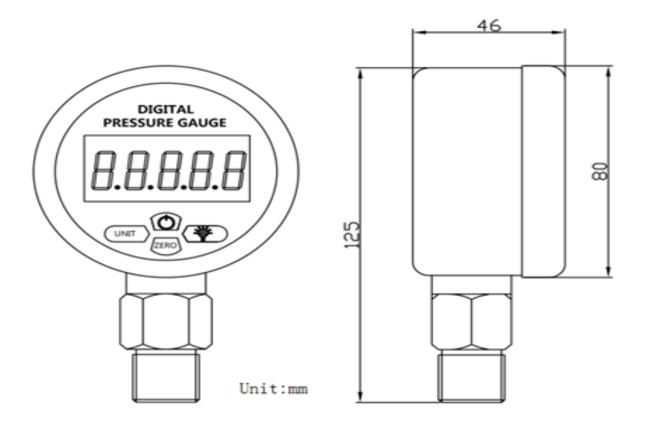
Overview

The DPG280 series are robust, digital pressure gauges that feature data logging capabilities. Store up to 10,000 points; sample rate is adjustable and can be logged as fast as three times the measurement per second or as slow as three times the measurement every hour. Recorded data is accessible by utilizing a USB connection and easy-to-use software that make data analysis straightforward. There are several additional features that add to the usability of this series. There are five selectable engineering pressure units, a zero function, peak measurement display, and bright white backlight. Also displayed is a visual bar to quickly show percentage of rated pressure being utilized and the battery level of the unit to help prevent a unit unexpectedly losing power. These units can measure a wide variety of gasses and liquids that are non-corrosive and compatible with 304 stainless steel.

Specifications

<u> </u>	
Pressure Range	Refer to selection-table
Pressure Type	Gauge pressure, Negative gauge pressure
O . Jack Consolto	Range*150% (<40Mpa)
Overload Capacity	Range*120% (>40Mpa)
Acc.	±0.4%FS or ±0.2%FS
Long-term Stability	0.25 %Fs/year
Power	3V (2 AAA batteries)
Sampling Rate	Up to 10,000 points per 3 times/second
Screen Display	4-digit LCD screen
Compensation Temperature	0-60°C
Operation Temperature	-20°C-70°C
Process Connection	1/4-18NPT Male
Connection Material	304SS
Shell Material	304 Stainless Steel
Measure Medium	Gasses and liquids that are non- corrosive and compatible with 304 stainless steel
Electromagnetic Compatibility	Anti-EMI Design, EN61326
Date Retention	EEPROM
	Pressure units switchable
Other Functions:	Zero clearing
	metec it - info@rometec it

Dimensions



MIN/MAY DICITAI

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PRESSURE GAUGES

DPG5500 Series-Aluminum Case **DPG5600 Series-Backlit DPG3500 Series-Nema 4X Case**



- Capture Minimum and Maximum Readings
- ✓ Zero with One Touch
- ✓ 316 SS Wetted Parts
- Accuracy
- Optional Backlit Display or NEMA 4X (IP66) **Enclosure Available**

The DPG5500 and DPG3500 gauges are compact units with a full 4-digit display. Available with over 140 possible pressure units, these gauges are powered by 2 "AA" alkaline batteries. All models include a standard 5-minute auto shut-off circuitry to conserve battery life. Units are available in three configurations, with an extruded aluminum or NEMA 4X ABS/ polycarbonate case. Aluminum case models are also available with a backlit display

SPECIFICATIONS

Power: 2 "AA" alkaline included, approximately 2000 hr (150 to 1500 hr for DPG5600 models; low battery indicator

Auto Shut-Off: 5 min standard. Specify "-NS" option at time of order if on/ off button is preferred. (No additional charge for "-NS" option.)

Pressure/Vacuum Reference: Gauge (psig) or absolute (psia)

Optional Units: Gauge is available from the factory scaled in other engineering units, for other ranges. Units include kPa, bar, mbar, inH2O, mmHg, ftH2O, torr, and kg/cm².

Please consult the OMEGA Pressure **Engineering Department for** available models.

Display: 4 digit, LCD, 10.16 mm (0.4") digit height, 3 readings per second, nominal update rate

DPG3500B-60G. shown actual size. **NEMA 4X Case PEOMEGA** DPG5500B-60G, shown actual size. Accuracy: ±0.25% FS **Operating Temperature: Aluminum Case** -20 to 85°C (-4 to 185°F)

±1 least significant digit; linearity, hysteresis and repeatability combined

Compensated Temperature: 0 to 70°C (32 to 158°F)

Temperature Stability: ±0.5% of span (typical), ±1% of span (maximum) 0 to 82°C (32 to 180°F) Storage Temperature: -40 to 95°C (-40 to 203°F)

Pressure/Vacuum Fitting: 1/4 MNPT

Wetted Parts: 316 SS

Overpressure: 2x sensor pressure range, 3000 psig range = 5000 psi max, 5000 psig range = 7500 psig max. At 110% to 125% out-of-range display 1---- or 1-.-.- depending on the model.

Burst Pressure: 4x sensor pressure rating or 10,000 psi, whichever is less

Calibration: Internal controls, noninteractive zero, span and linearity +10% range

Dimensions: DPG5500/5600: 86 W x 73 H x 42 mm D (3.38 x 2.88 x 1.65") not including the

pressure fitting. **DPG3500:** 89 W x 76 H x 51 mm D (3.5 x 3.0 x 2.0") not including the pressure fitting. Add approximately 19 mm (0.75") to the height for the pressure fitting.

Weight: 255 g (9 oz); shipping weight: 454 g (1 lb)

Material:

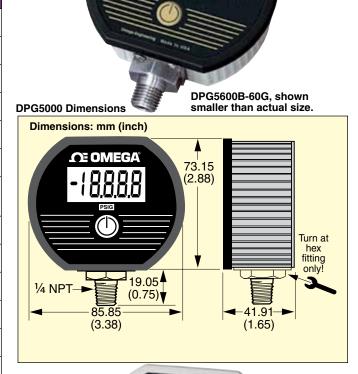
DPG5500/5600: Extruded aluminum case, light gray epoxy powder coated, black ABS/polycarbonate bezel, front and rear gaskets, black/gold label **DPG3500**: ABS/polycarbonate NEMA 4X (IP66) case, rear gasket, polycarbonate lábel

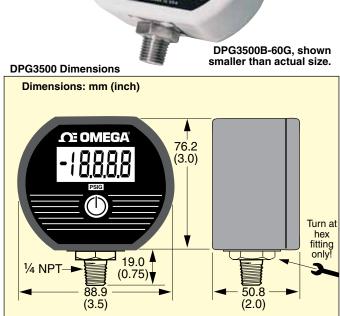
MIN/MAX DIGITAL PRESSURE GAUGES

		SOLUTIONS S		/AILABLE!
-30.00 inHg/ 15.00 psig	120.0 inHg	1600 mmHg	35.00 bar	1.000 kg/ cm² abs
-30.0 inHg/ 100.0 psig	200.0 inHg abs	760.0 torr abs	70.00 bar	1.000 kg/ cm² vac
-30.0 inHg/ 200.0 psig	200.0 inHg	1600 torr abs	140.0 bar	±1.000 kg/cm²
3.000 psig	50.00 oz/in²	2100 mmH ₂ O	200.0 bar	1.000 kg/cm²
5.000 psig	80.0 oz/in ²	3500 mmH ₂ O	350.0 bar	2.000 kg/ cm² abs
15.00 psi abs	240.0 oz/ in² abs	200.0 cmH ₂ O	20.00 kPa	2.000 kg/cm ²
15.00 psig vac	240.0 oz/ in² vac	350.0 cmH ₂ O	35.00 kPa vac	4.000 kg/cm ²
±15.00 psig	±240.0 oz/ in²	1000 cmH ₂ O	100.0 kPa abs	7.000 kg/ cm² abs
15.00 psig	240.0 oz/in ²	2100 cmH ₂ O	100.0 kPa vac	7.000 kg/ cm ²
30.00 psi abs	85.0 inH ₂ O	200.0 mbar	±100.0 kPa	14.00 kg/cm²
30.00 psig	140.0 inH ₂ O	350.0 mbar	100.0 kPa	20.00 kg/cm ²
60.00 psig	400.0 inH ₂ O	1000 mbar abs	200.0 kPa abs	35.00 kg/cm ²
100.0 psi abs	$^{\rm 400.0\;inH_2O}_{\rm vac}$	1000 mbar vac	200.0 kPa	70.00 kg/cm ²
100.0 psig	±400 inH ₂ O	±1000 mbar	400.0 kPa	140.0 kg/cm²
200.0 psig	400.0 inH ₂ O	1000 mbar	700.0 kPa abs	200.0 kg/cm ²
300.0 psig	850 inH ₂ O	2000 mbar abs	700.0 kPa	350.0 kg/cm²
500.0 psig	7.000 ftH ₂ O	2000 mbar	1500 kPa	1.000 atm abs
1000 psig	12.00 ftH ₂ O	4000 mbar	2000 kPa	±1.000 atm
2000 psig	35.00 ftH ₂ O	1.000 bar abs	3500 kPa	1.000 atm
3000 psig	70.00 ftH ₂ O	1.000 bar vac	5000 kPa	4.000 atm
5000 psig	140.0 ftH ₂ O	±1.000 bar	3.500 MPa	7.000 atm
6.000 inHg	230.0 ftH ₂ O	1.000 bar	7.000 MPa	14.00 atm
10.00 inHg	480.0 ftH ₂ O	2.000 bar abs	14.00 MPa	20.00 atm
30.00 inHg abs	150.0 mmHg	2.000 bar	20.00 MPa	35.00 atm
30.00 inHg vac	260.0 mmHg	4.000 bar	35.00 MPa	70.00 atm
±30.00 inHg	760.0 mmHg abs	7.000 bar abs	1000 g/ cm² abs	135.0 atm
30.00 inHg	760.0 mmHg vac	7.000 bar	1000 g/ cm ²	200.0 atm
60.00 inHg abs	760.0 mmHg	14.00 bar	2100 g/ cm² abs	340.0 atm
60.00 inHg	1600 mmHg	20.00 bar	2100 g/ cm ²	

Resolution is fixed as indicated in table. Ranges in **bold** are standard. Contact Omega Engineering for other ranges listed above.

abs: Absolute reference (normally reads atmospheric pressure; reads zero at full vacuum).





MIN/MAY DIGITAL DRECGURE GALIGES

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CONTROLS AND FUNCTIONS

(FRONT PUSHBUTTON TURNS THE GAUGE ON OR OFF AND CYCLES THROUGH OTHER FUNCTIONS)

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FUNCTION	PUSHBUTTON	PROMPT (Release Button)	RESULT
On	Press 1 sec	Gauge range/display test	Actual pressure
On with Zero	Press/hold	0000	Actual pressure
Hi Reading	Press/hold	HI	Hi & max reading
Lo Reading	Press/hold	LO	Lo & min reading
Normal Read	Press/hold	AP	Actual pressure
Clear Hi/Lo	Press/hold	HI/L0/AP>cIr	Actual pressure
Off	Press/hold	HI/L0/AP>cIr>0FF	Gauge off

To Order			
RANGE/ RESOLUTION/ MODELS	MODEL NO. BASIC MODELS	MODEL NO. BACKLIT MODELS	MODEL NO. NEMA 4X (IP66)
0 to 3.000 psig	DPG5500B-03G	DPG5600B-03G	DPG3500B-03G
0 to 5.000 psig	DPG5500B-05G	DPG5600B-05G	DPG3500B-05G
0 to 15.00 psig Vac	DPG5500B-15VAC	DPG5600B-15VAC	DPG3500B-15VAC
0 to 15.00 psig	DPG5500B-15G	DPG5600B-15G	DPG3500B-15G
0 to 30.00 psig	DPG5500B-30G	DPG5600B-30G	DPG3500B-30G
0 to 60.00 psig	DPG5500B-60G	DPG5600B-60G	DPG3500B-60G
0 to 100.0 psig	DPG5500B-100G	DPG5600B-100G	DPG3500B-100G
0 to 200.0 psig	DPG5500B-200G	DPG5600B-200G	DPG3500B-200G
0 to 300.0 psig	DPG5500B-300G	DPG5600B-300G	DPG3500B-300G
0 to 500.0 psig	DPG5500B-500G	DPG5600B-500G	DPG3500B-500G
0 to 1000 psig	DPG5500B-1KG	DPG5600B-1KG	DPG3500B-1KG
0 to 2000 psig	DPG5500B-2KG	DPG5600B-2KG	DPG3500B-2KG
0 to 30.00 inHg Vac	DPG5500B-30INHGVAC	DPG5600B-30INHGVAC	DPG3500B-30INHGVAC
30.00 mmHg to 100.0 psig	DPG5500B-30V100G	DPG5600B-30V100G	DPG3500B-30V100G
0 to 15.00 psia	DPG5500B-15A	DPG5600B-15A	DPG3500B-15A
0 to 30.00 psia	DPG5500B-30A	DPG5600B-30A	DPG3500B-30A
0 to 760.0 torr abs	DPG5500B-760TORRA	DPG5600B-760TORRA	DPG3500B-760TORRA
0 to 85.0 inH ₂ Og	DPG5500B-85INH2OG	DPG5600B-85INH2OG	DPG3500B-85INH2OG
0 to 140.0 inH ₂ Og	DPG5500B-140INH2OG	DPG5600B-140INH2OG	DPG3500B-140INH2OG
0 to 1.000 barg	DPG5500B-1BARG	DPG5600B-1BARG	DPG3500B-1BARG
0 to 7.000 barg	DPG5500B-7BARG	DPG5600B-7BARG	DPG3500B-7BARG
0 to 14.00 barg	DPG5500B-14BARG	DPG5600B-14BARG	DPG3500B-14BARG

Comes complete with operator's manual.

 $\textbf{Ordering Examples: DPG5500B-30G}, \ 0 \ to \ 30.00 \ psig, \ \frac{1}{4} \ NPT \ lower \ fitting, \ battery \ powered, \ min/max/zero.$ DPG5600B-30G, 0 to 30.00 psig with \(^1/4\) NPT lower fitting, battery powered, with a backlit display, min/max/zero.

BROSEOR 200 0 to 20 00 min 1/ NIDT lower filling bottom neuround min/mon/mars NITMA 4V (IDCC) beginn

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DIGITAL PRESSURE GAUGE STAINLESS STEEL WETTED PARTS AND BODY

Gauge, Absolute, Sealed Gauge, Compound Gauge, Vacuum and **Barometric Models** 0-10 inH₂0 to 0-5000 psi (0-25 mb to 0-345 bar)

DPG409 Series



Magnetic stylus (included).

- ✓ 5-PT NIST Traceable Calibration Included
- ✓ Easy to Read 25 mm (1") Backlit LCD Display
- ✓ High 0.08% Accuracy
- ✓ Hi and Lo Alarms Standard
- MIN/MAX/AVG Reading
- User Selectable Analog Output 0 to 5 Vdc, 0 to 10 Vdc or 4 to 20 mA
- Included Setup and Service Software Allows for Fast Maintenance and Calibration via USB Connection
- ✓ Wireless Transmitter **Option Sends Reading** to Remote Location and Includes Charting and Data Logging Software
- ✓ CE Certified
- Battery Powered with Long Battery Life



Omega's DPG409 digital pressure gauge incorporates a rugged 316 SS enclosure designed for washdown and marine applications with a precision 0.08% accuracy pressure transducer with 316L SS wetted parts and body. The result is an extremely durable digital pressure gauge designed to survive harsh industrial environments. The large 25 mm (1") display is easy to read at a distance up to 11 m (35'). Models are available in Gauge. Sealed Gauge, Compound Gauge, Absolute, Vacuum and Barometric pressure ranges. Standard features include a highly stable silicon sensor, selectable MIN/MAX and AVG readings, Hi and LO alarms and an externally powered user

selectable analog output. An optional wireless transmitter feature with software allows the signal to be transmitted to a remote location such as a PC for charting and data logging. Power is from an internal long life battery (included) or an externally supplied dc voltage source. Each unit is supplied with configuration software that allows the user to connect to a PC via a standard USB connection (cable included) and select a variety of user configurable features including sample interval, units and backlight.

Note: Because of transmission frequency regulations, wireless models may only be used in the US, Canada and Europe.

SPECIFICATIONS

CE Compliant: Meets EN61326-1: 2006 for industrial locations with analog output cables less than 30 m (98')

Accuracy (Combined Linearity, Hysteresis and Repeatability): ±0.08% BSL (compound gauge calibrated in positive direction only)

Temperature: **Storage:** -40 to 82°C (-40 to 180°F) **Operating**: -18 to 66°C (0 to 150°F)

Thermal Effects (Over Operating Range):

Zero Balance: Ranges >5 psi: ±0.3% span

Ranges ≤5 psi: ±0.5% span

Span Setting:

Ranges >5 psi: ±0.3% span Ranges ≤5 psi: ±0.5% span Minimum Resistance Between Transducer Body and Any Wire: 100MΩ @ 50 Vdc

Pressure Cycles: 1 million minimum Long Term Stability (1-yr): ±0.1% FS typical

Analog Output: User selectable 0 to 5 Vdc, 0 to 10 Vdc or 4 to 20 mA (external 24 Vdc power supply required for all analog output types)

Note: Compound gauge ranges have a unidirectional analog output equal to their full span; i.e. -15 to +15 psi = 0 to 10 Vdc.

Set jumper to select current or voltage Software selection of 0 to 5 Vdc, 0 to 10 Vdc, or 4 to 20 mA

Analog Output **Cable:** 2.7 m (8.9') **Accuracy:** 0.08% typical

Overpressure: Gauge and sealed gauge

10 inH2O: 10 times span 1 psi: 6 times span 2.5 to 1000 psi:

4 times span

1500 to 5000 psi: 7250 psi max

Absolute/Barometric Ranges

5 psia: 6 times span,

15 to 1000 psia: 4 times span 1500 to 5000 psi range: to 7250 psia

Containment Pressure: Gauge

10 inH₂O to 5 psi: To 1000 psi 15 to 1000 psi: To 3000 psi 1500 to 5000 psi: To 10,000 psi

Absolute/Barometric Pressure: 5 to 1000 psi: to 6000 psia

Display: 4-digit LCD with user selectable backlighting, (9999 count) 25 mm (1") character height

Computer Interface: USB connection

for set-up, cable included Sample/Display Range: User

selectable from 0.38 to 30 sec. (preset to 1/sec)

Power: Two 1.5 V alkaline (C cell)

included.

Battery Life (Typical): Up to 9 months **Enclosure:**

Material: 316 stainless steel and

ABS center gasket

Finish: Brushed 316 stainless steel **Environmental Rating:**

Weatherproof, NEMA 4X (IP65)

Sensor Wetted Parts:

316L stainless steel

Pressure Connection: 1/4-18 NPT male

Connection Location: Lower

Dimensions:

Display: 115 H x 89 W x 74 mm D

(4.5 x 3.5 x 2.9") Sensor: 72 to 89 mm L (2.8 x 3.5") below display

Weight: 900 g (2 lb) Typical depending

upon configuration

Front Panel Functions

Backlight: Manually turns backlight

on/off

Min/Max: Recalls min/max values Zero/Clear: Zeros display or clears

min/max

Software Settings (via USB)

Update Rate: 4 options, 10, 5, 2, 1

times per second

Units: psi, inHg, inH₂O, bar, mbar, hPa units; must be specified at time of order **Lock:** Allows the lock-out of front panel functions

Alarms: User selectable "High" and "Low" alarm limits (open collector)

Backlight: On/off, 10 sec, 30 sec,

1 min, 5 min

Wireless Transmitter (Optional):

Channel number, transmission rate, alarms, sensor offset, chart recording,

data logging

Calibrate: Zero and Span Overrange Indication: "_

Wireless Option Specifications Transmit Sample Rate: User

programmable from 1 sample/2 min to

1 sample/2 sec

Radio Frequency (RF) Transceiver

Carrier: ISM 2.4 GHz RF Output: 10 dBm (10 mW)

Range of RF Link:

Outdoors (Line of Sight):

Up to 120 m (400')

Indoors/Urban: Up to 40 m

Included Software: Requires Windows®

7 (32 bit); XP or Vista

Data Transmission to Host: Pressure reading, ambient temperature reading, RF transmit strength and battery level



New security feature uses

Wireless model shown. DPG409-500G-W.

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ftp://ftp.omega.com/public/DASGroup/products/dpg409/

The DPG configuration wizard provides a convenient USB interface with your device.

Please refer to the manual for details on setting up your device.



Wireless	Receivers (For Use with
	Transmitter Option)

The local transmitter option,		
MODEL NO.	DESCRIPTION	
UWTC-REC1	48-channel wireless receiver, USB powered	
UWTC-REC2-(*)	48-channel wireless receiver with analog output	
UWTC-REC2-D-(*)	48-channel wireless receiver with analog output and digital display	

^{*} Specify analog output signal: "V1" for 0 to 5 Vdc; "V2" for 0 to 10 Vdc, "TC" for Type K thermocouple, or "MA" for 4 to 20 mA.

To Order			
RANGE (RESOLUTION)			
psi Bar		PSI RANGES	
GAUGE PRESSUR		MODEL NO.	
0 to 10.00 inH ₂ O		DDC400 10WC	
	0 to 25 mbar	DPG409-10WG	
0 to 1.000	0 to 70 mbar	DPG409-001G	
0 to 2.500	0 to 175 mbar	DPG409-2.5G	
0 to 5.000	0 to 350 mbar 0 to 1	DPG409-005G	
0 to 15.00 0 to 30.00	0 to 1	DPG409-015G DPG409-030G	
0 to 50.00	0 to 3.5	DPG409-050G DPG409-050G	
0 to 100.0	0 to 3.5		
0 to 150.0	0 to 10	DPG409-100G	
0 to 250.0	0 to 17	DPG409-150G	
0 to 500.0	0 to 35	DPG409-250G	
0 to 750.0		DPG409-500G	
	0 to 52 0 to 70	DPG409-750G	
0 to 1000 0 to 1500	0 to 100	DPG409-1KG DPG409-1.5KG	
0 to 1500 0 to 2500	0 to 100		
	0 to 170	DPG409-2.5KG	
0 to 3500	0 to 240	DPG409-3.5KG	
0 to 5000 ABSOLUTE PRESS		DPG409-5.0KG	
		DDC 400 005 A	
0 to 5.000	0 to 350 mbar 0 to 1	DPG409-005A	
0 to 15.00		DPG409-015A	
0 to 30.00	0 to 2	DPG409-030A	
0 to 50.00	0 to 3.5	DPG409-050A	
0 to 100.0	0 to 7	DPG409-100A	
0 to 150.0	0 to 10	DPG409-150A	
0 to 250.0 0 to 500.0	0 to 17	DPG409-250A	
	0 to 35	DPG409-500A	
0 to 750.0 0 to 1000	0 to 52 0 to 70	DPG409-750A	
		DPG409-1KA	
	VE GAUGE, (ZERO O		
0 to 10.00 inH ₂ O	0 to 25 mbar	DPG409-10WV	
0 to 1.000	0 to 70 mbar	DPG409-001V	
0 to 2.500	0 to 175 mbar	DPG409-2.5V	
0 to 5.000	0 to 350 mbar	DPG409-005V	
0 to 15.00	0 to 1 bar	DPG409-015V	
	ESSURE (ABSOLUTE		
0 to 32.00 inHg	_	DPG409-32B	
16.00 to 32.00 inHg	_	DPG409-16B	
26.00 to 32.00 inHg		DPG409-26B	
_	0 to 1100 hPa	DPG409-32HB	
_	550 to 1100 hPa	DPG409-16HB	
_	880 to 1100 hPa	DPG409-26HB	
COMPOUND GAUGE PRESSURE			
±10.00 inH ₂ O	±25.00 mbar	DPG409-10WCG	
±1.000	±69.00 mbar	DPG409-001CG	
±2.500	±172.0 mbar	DPG409-2.5CG	
±5.000	±345.0 mbar	DPG409-005CG	
±15.00	±1 bar	DPG409-015CG	

Comes complete with operator's manual, set-up and configuration software, (charting and databasing software with common drivers), USB cable, 2.7 m (8.9') analog output cable, two 1.5 V alkaline C cell batteries, and 5-point NIST traceable calibration.

To order wireless option add suffix "-W" to model number, for additional cost.

To order sealed gauge models change suffix "G" to "SG", available on gauge ranges ≥ 100 psi, no extra charge.

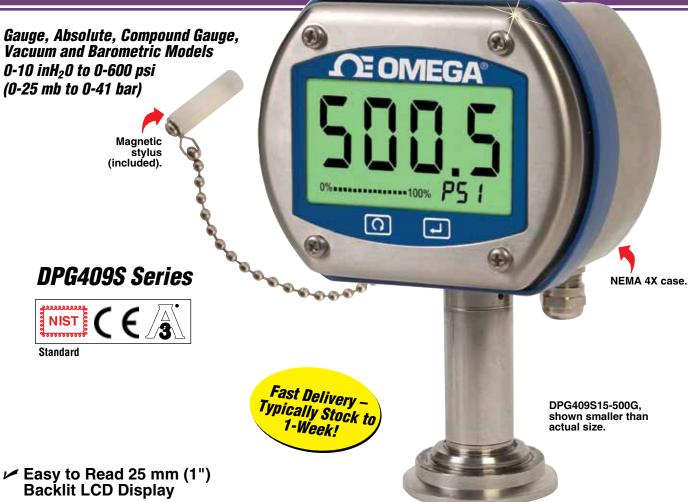
Ordering Examples: DPG409-100G-W, digital pressure gauge with 100 psig range and wireless transmitter option, and UWTC-REC1, wireless USB receiver.

DPG409-015V, digital pressure gauge with 15 psi vacuum range.

DPG409-100SG, digital pressure gauge with 100 psi sealed gauge range.

CANITARY/CI FAN_IN_DIACE Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

DIGITAL PRESSURE GAUGE **VERY HIGH ACCURACY**



- ✓ High 0.08% **Accuracy Typical**
- ✓ Hi and Lo Alarms Standard
- ✓ MIN/MAX/AVG Reading
- User Selectable Analog Output 0 to 5 Vdc, 0 to 10 Vdc or 4 to 20 mA
- ✓ Data Logging and **Charting Software** Included
- ✓ Wireless Transmitter **Option Sends Reading** to a Remote Location
- Tested to Industrial **CE Standards**
- Battery Powered with **Long Battery Life**
- Analog Output Standard
- ✓ Wireless Transmitter Optional

OMEGA's DPG409S Sanitary/ CIP digital pressure gauges incorporate a rugged 316 SS enclosure designed for washdown and marine applications with a precision 0.08% accuracy pressure transducer with 316L SS wetted parts and body. The result is an extremely durable digital pressure gauge designed to survive harsh industrial environments. The large 25 mm (1") display is easy to read at a distance up to 11 m (35'). Models are available in Gauge, Compound Gauge, Absolute, Vacuum and Barometric pressure ranges. Standard features include a highly stable silicon sensor, selectable MIN/MAX and AVG readings, Hi and LO alarms and an

externally powered user selectable analog output. An optional wireless transmitter feature with software allows the signal to be transmitted to a remote location such as a PC for charting and data logging. Power is from an internal long life battery (included) or an externally supplied dc voltage source. Each unit is supplied with configuration software that allows the user to connect to a PC via a standard USB connection (cable included) and select a variety of user configurable features including sample interval, units, and backlight.

Note: Because of transmission frequency regulations, wireless models may only be used in the US, Canada and Europe.

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Pressure Rating: 1½ and 2" Tri-Grip™

Over Pressure: 4 x rated pressure to

Secondary Containment: 6 x rated

selectable backlighting, (9999 count)

Computer Interface: UBS connection

Sample/Display Rate: User selectable

capacity (C cell) Included (Two included

Battery Life (Typical): Up to 9 months

Enclosure Material: 316 Stainless

Enclosure Environmental Rating:

Connection Location: Lower (head

Steel and ABS center gasket

Enclosure Finish: Brushed 316

Weatherproof, NEMA 4X (IP65)

rotates to position display)

Front Panel Functions

Backlight: Manually turns

Zero/Clear: Zeros display

(via USB) Update Rate: 4 options, 10, 5, 2, 1 times

Units: psi, inHg, inH2O, bar,

mbar, hPa, units must be

specified at time of order

from 0.25 to 10 sec. (preset to 1/sec)

Power: One 3.6V lithium 8.4 Ah

pressure to a maximum of 2000 psi (not

maximum rated flange pressure

Display: 4-digit LCD with user

25 mm (1") character height

for set-up, cable included

with Wireless Option)

stainless steel

backlight on/off

min/max values

per second

Min/Max: Recalls

or clears min/max

Software Settings

600 psi using suitable clamp (600 psi on

Fitting (compatible with Tri-Clamp®):

1½" Tri-Clamp®only)

in clamp)

ftp://ftp.omega.com/public/DASGroup/products/dpg409/

The DPG configuration wizard provides a convenient USB interface with your device. Please refer to the manual for details on setting up your device.

SPECIFICATIONS

CE Compliant: Meets EN61326-1: 2006 for industrial locations with analog output cables less than 30 m (98')

Accuracy: ±0.08% Best Straight Line Typ. (Linearity, Hysteresis and Repeatability combined)

Calibration: 5-Pt NIST traceable Calibration with zero and span values, Calibrated in horizontal direction (Compound Gage models calibrated in positive direction only)

Zero Balance: ±0.5% FS typical ±1% maximum (For ranges ≤2.5 psi ±1% Typical ±2% maximum)

Span Setting: ±0.5% FS typical ±1% maximum (For ranges ≤2.5 psi ±1% Typical ±2% maximum)

Storage/Operating Temperature Range:

Storage: -40 to 82°C (-40 to 180°F) Operating: -18 to 66°C (0 to 150°F) **Compensated Temperature Range:**

Ranges ≤5 psi: 4.4 to 60°C (40 to 140°F)

Ranges >5 psi: -4 to 85°C (25 to 150°F)

Thermal Effect (Over Compensated Range):

Zero and Span shift over **Compensated Range**

Ranges ≤2.5 psi: Zero: 1.00%

Span: 0.70%

Range = 5 psi: Zero: 0.80%

Span: 0.50%

Ranges > 5 psi: Zero: 0.50%

Span: 0.50%

26B & 26HB Barometric Range: Zero: 0.90% Span: 0.50%

Minimum Isolation Between Case and Output Terminations: 100M Ω @ 50 Vdc

Analog Output: User selectable 0 to 5 Vdc, 0 to 10 Vdc of 4 to 20 mA (external 24 Vdc power required)

Note: Compound gage ranges have a unidirectional analog output equal to their full span; i.e. -15 to +15 psi = 0 to 10 Vdc.

Analog Output Cable: 2.7 m (8.9') **Analog Output Accuracy:**

0.08% typical

Pressure Cycles: 250,000, minimum Long Term Stability (1-Year): ±0.1%

FS Typ.

Fill Fluid: NEOBEE M5 Food Grade

Approved to 3A Sanitary

Specification

Environmental Protection: NEMA 4X (IP65) depending upon electrical termination

panel functions Alarms: User selectable "High" and "Low" alarm limits. (Open Collector)

Analog Output: User Selectable 0 to 5 Vdc, 0 to 10 Vdc, or 4 to 20 mA (requires external 24 Vdc power)

Backlight: On/Off, 10 sec, 30 sec,

1 min. 5 min

Wireless Transmitter (optional): Channel Number, Transmission rate, alarms, sensor offset, chart recording, data logging

Calibrate: Zero and Span Overrange Indication: "

Wireless Option Sepcifications:

Transmit Sample Rate: User programmable from 1 sample/2 min to 1 sample/2 sec

Radio Frequency (RF) Transceiver

Carrier: ISM 2.4 GHz RF Output: 10 dBm (10 mW)

Range of RF Link:

Outdoors (Line of Sight):

Up to 120 m (400')

Indoors/Urban: Up to 40 m (130') Included Software: Requires Windows®

7 (32 bit); XP, Vista

Internal Battery: Two 3.6V lithium 8.4 Ah capacity (C-cell) included

Data Transmission to Host: Pressure reading, ambient temperature reading, RF transmit strength and battery level

Display: 115 D x 89 W x 74 mm H

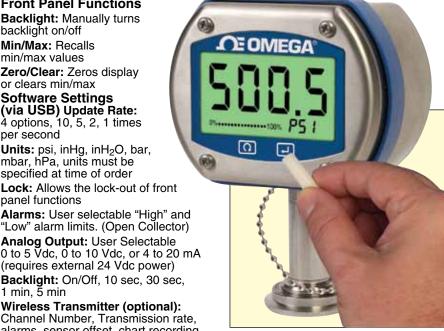
(4.5 x 3.5 x 2.9")

Sensor: 72 to 89 mm L (2.8 to 3.5")

below display

Weight: 900 g (2 lb) Typical depending

upon configuration



DPG409S15-500G, shown smaller than actual size.



To Order		
		PSI RANGES
psi	bar	MODEL NO.
GAUGE	0.1.05	DD04000[#1 40]W0
0 to 10 inH ₂ O	0 to 25 mbar	DPG409S[*]-10WG
0 to 1	0 to 70 mbar	DPG409S[*]-001G
0 to 2.5	0 to 175 mbar	DPG409S[*]-2.5G
0 to 5	0 to 350 mbar	DPG409S[*]-005G
0 to 15	0 to 1	DPG409S[*]-015G
0 to 30	0 to 2	DPG409S[*]-030G
0 to 50	0 to 3.5	DPG409S[*]-050G
0 to 100	0 to 7	DPG409S[*]-100G
0 to 150	0 to 10	DPG409S[*]-150G
0 to 250	0 to 17.5	DPG409S[*]-250G
0 to 500	0 to 35	DPG409S[*]-500G
0 to 600†	0 to 41	DPG409S[*]-600G
ABSOLUTE	T	
0 to 5	0 to 350 mbar	DPG409S[*]-005A
0 to 15	0 to 1	DPG409S[*]-015A
0 to 30	0 to 2	DPG409S[*]-030A
0 to 50	0 to 3.5	DPG409S[*]-050A
0 to 100	0 to 7	DPG409S[*]-100A
0 to 150	0 to 10	DPG409S[*]-150A
0 to 250	0 to 17.5	DPG409S[*]-250A
0 to 500	0 to 35	DPG409S[*]-500A
0 to 600†	0 to 41	DPG409S[*]-600A
VACUUM (NEGATI\		
0 to -10 inH ₂ O	0 to -25 mbar	DPG409S[*]-10WV
0 to -1	0 to -70 mbar	DPG409S[*]-001V
0 to -2.5	0 to -175 mbar	DPG409S[*]-2.5V
0 to -5	0 to -350 mbar	DPG409S[*]-005V
0 to -15	0 to -1 bar	DPG409S[*]-015V
COMPOUND GAUG	E	
± 10 inH ₂ O	± 25 mbar	DPG409S[*]-10WCG
± 1	± 70 mbar	DPG409S[*]-001CG
± 2.5	± 175 mbar	DPG409S[*]-2.5CG
± 5	± 350 mbar	DPG409S[*]-005CG
± 15	± 1000 mbar	DPG409S[*]-015CG
BAROMETRIC		
0 to 32 inHg		DPG409S[*]-32B
16 to 32 inHg		DPG409S[*]-16B
26 to 32 inHg		DPG409S[*]-26B
	0 to 1100 hPa	DPG409S[*]-32HB
	550 to 1100 hPa	DPG409S[*]-16HB
	880 to 1100 hPa	DPG409S[*]-26HB

[*] Insert "15" for 1.5" Tri-Grip™ or "20" for 2" Tri-Grip™ sanitary fitting, no extra charge. † 1½ Tri-Grip™ only.

WIRELESS RECEIVERS (FOR WIRELESS OPTION "-W")	
MODEL NO.	DESCRIPTION
UWTC-REC1	48-channel wireless receiver, USB powered
UWTC-REC2-(**)	48-channel wireless receiver with analog output
UWTC-REC2-D-(**)	48-channel wireless receiver with analog output and display

Comes complete with operator's manual, set-up and configuration software, magnetic stylus, USB cable, 2.7 m (9') analog output cable, one 3.6V lithium C cell battery (two with wireless option) and 5-pt NIST traceable calibration. Wireless option also includes charting and databasing software.

(**) Specify analog output signal: "V1" for 0 to 5 Vdc; "V2" for 0 to 10 Vdc, "TC" for Type K thermocouple, or "MA" for 4 to 20 mA. For wireless option add "-W" suffix.

Ordering Examples: DPG409S15-100G, digital pressure gauge with 1.5" sanitary fitting, 100 psi gauge range.

DPG409S20-001CG, digital pressure gauge with 2" sanitary fitting, ±1 psi compound gauge range.

DPG409S15-015V-W, digital pressure gauge with wireless transmitter option, 1.5" sanitary fitting, 0 to -15 psi vacuum range.

NICITAI NIFFERENTIAI PRECIRERometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it **GAUGE VERY HIGH ACCURACY** 316L SS WETTED PARTS AND BODY

Uni-Directional Ranges 0-10 inH₂O to 0-1000 psi (0-25 mb to 0-70 bar)

DPG409 Differential Pressure Series



- ✓ Wet/Wet Differential Pressure Measurement
- ✓ 5-Point NIST Traceable Calibration Included
- ✓ Easy to Read 25 mm (1") **Backlit LCD Display**
- ✓ High 0.08% Accuracy
- ✓ Hi and Lo Alarms Standard
- MIN/MAX/AVG Reading
- User Selectable Analog Output 0 to 5 Vdc, 0 to 10 Vdc or 4 to 20 mA
- ✓ Wireless Transmitter Option Sends Reading to **Remote Location and Includes Charting and Data Logging Software**
- CE Certified
- Battery Powered with Long Battery Life
- ✓ NEMA 4X (IP65) Enclosure

OMEGA's DPG409 digital differential pressure gauge incorporates a rugged 316 SS enclosure designed for washdown and marine applications with a precision 0.08% accuracy pressure transducer and 316L S wetted parts and body. The result is an extremely durable digital pressure gauge. You get all the durability and stability of the micromachined silicon sensor in a rugged NEMA 4X (IP65) package.

Magnetic stylus included. Fast Delivery -Typically Stock to 2 Weeks! SPECIFICATIONS **CE Compliant:** Meets

EN61326-1: 2006 for industrial locations with analog output cables

Accuracy (Combined Linearity, Hysteresis and Repeatability): ±0.08% BSL

Storage Temperature: -40 to 82°C (-40 to 180°F)

Operating Temperature: -18 to 66°C (0 to 150°F)

Thermal Effects (Over Operating Range): Zero Balance:

Ranges 10 inH₂O to 1 psi: ±1% span Ranges >1 psi: ±0.5% span

Span Setting:

Ranges 10 inH2O to 1 psi: ±1% span Ranges >1 psi: ±0.5% span

Minimum Resistance Between **Transducer Body and Any Wire:** 100M Ω @ 50 Vdc

Pressure Cycles: 1 million min Long Term Stability (1-Yr.): ±0.1% FS typical

Analog Output: User selectable 0 to 5 Vdc, 0 to 10 Vdc or 4 to 20 mA (external 24 Vdc power supply required) Note: Analog output is independently scalable

Set jumper to select current or voltage. Software selection of 0 to 5 Vdc, 0 to 10 Vdc, or 4 to 20 mA

Analog Output Cable: 2.7 m (9') Analog Output Accuracy:

0.08% typical

Line/Static Pressure: 500 psi maximum applied to both sides simultaneouly

Proof Pressure (Differential):

10 in $H_2O = 10$ times range

1 psi = 6 times range **2.5 to 750 psi** = 4 times range 1000 psi Range = 3 times range

Hi-Side Containment Pressure (Differential): 10 inH₂O to 5 psi: To 1000 psi

15 to 1000 psi: To 3000 psi

Display: 4-digit LCD with user selectable backlighting, (9999 count) 25 mm (1') character height

Sample/Display Rate: User selectable from 0.38 to 30 sec (preset to 1/sec)

Computer Interface: USB connection for set-up, cable included

Power: One 3.6V lithium 8.4 Ah capacity (C cell) included (two included with wireless option) (replacement battery model no. BÁTT-C-3.6V) Battery Life (Typical): Up to 9 months

DPG409-050DWU

shown smaller

than actual size.

Enclosure Material: 316 Stainless Steel and ABS center gasket Enclosure Finish: Brushed 316

stainless steel

C

Enclosure Environmental Rating: Weatherproof, NEMA 4X (IP65)

Sensor Wetted Parts: 316L stainless steel

Pressure Connection: ¼-18 NPT male **Dimensions:**

Display: 115 D x 89 W x 74 H mm (4.5 x 3.5 x 2.9")

Sensor: 72 to 89 mm L (2.8 to 3.5") below display, 80 mm (3.1") wide

Weight: 1 kg (2.2 lb) Typical depending upon configuration

Front Panel Functions

Backlight: Manually turns backlight on/off

Min/Max: Recalls minimum/

maximum values

Zero/Clear: Zeros display or clears minimum/maximum

Software Settings (via USB)

(USB connection is for set-up only) Note: Because of transmission frequency regulations, wireless models may only be used in the US, Canada and Europe.

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PRESSURE

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ftp://ftp.omega.com/public/DASGroup/products/dpg409/

The DPG configuration wizard provides a convenient USB interface with your device. Please refer to the manual for details on setting up your device.



Units: psi, inHg, inH₂O, bar, mbar, hPa units; must be specified at time of order

Lock: Allows the lock-out of front

panel functions

Alarms: User selectable "High" and "Low" alarm limits (open collector)

Backlight: On/Off, 10 sec, 30 sec,

1 min, 5 min

Wireless Transmitter (Optional):

Channel number, transmission rate, alarms, sensor offset, chart recording,

data logging

To Order

Calibrate: Zero and span
Overrange Indication: "_ _ _ "

WIRELESS OPTION

Transmit Sample Rate: User programmable from 1 sample/2 min to

1 sample/2 sec

Radio Frequency (RF)

Transceiver Carrier: ISM 2.4 GHz RF Output: 10 dBm (10 mW)

Range of RF Link: Up to 120 m (400')

outdoors (line of sight); Up to 40 m (130') indoors/urban Included Software: Requires Windows® 7 (32 bit); XP, Vista

DPG409-500DWU-W

DPG409-750DWU-W

DPG409-1KDWU-W

Data Transmission to Host: Pressure reading, ambient temperature reading, RF transmit strength and battery level

RANGE/ RESOLUTION MODEL NO. **BAR** 1/4 NPT MALE THREAD psi WET/WET UNI-DIRECTIONAL DIFFERENTIAL PRESSURE MODELS 0 to 10.00 inH₂O 0 to 25 mbar **DPG409-10WDWU** 0 to 1.000 psi 0 to 70 mbar **DPG409-001DWU** 0 to 2.500 0 to 170 mbar DPG409-2.5DWU 0 to 5.000 0 to 350 mbar DPG409-005DWU 0 to 15.00 **DPG409-015DWU** 0 to 1 0 to 30.00 0 to 2 DPG409-030DWU 0 to 50.00 0 to 3.5 **DPG409-050DWU** 0 to 100.0 0 to 7 **DPG409-100DWU** 0 to 150.0 0 to 10 **DPG409-150DWU** 0 to 250.0 0 to 17.5 **DPG409-250DWU** 0 to 500.0 0 to 35 **DPG409-500DWU** 0 to 750.0 0 to 50 **DPG409-750DWU** 0 to 1000 0 to 70 DPG409-1KDWU WET/WET UNI-DIRECTIONAL DIFFERENTIAL PRESSURE MODELS WITH WIRELESS TRANSMITTER 0 to 10.00 inH₂O 0 to 25 mbar DPG409-10WDWU-W 0 to 1.000 psi DPG409-001DWU-W 0 to 70 mbar 0 to 2.500 DPG409-2.5DWU-W 0 to 170 mbar 0 to 5.000 0 to 350 mbar DPG409-005DWU-W 0 to 15.00 0 to 1 DPG409-015DWU-W 0 to 30.00 0 to 2 DPG409-030DWU-W 0 to 50.00 0 to 3.5 DPG409-050DWU-W 0 to 100.0 0 to 7 DPG409-100DWU-W 0 to 150.0 0 to 10 DPG409-150DWU-W 0 to 250.0 0 to 17.5 DPG409-250DWU-W

0 to 35

0 to 50

0 to 70

Wireless Receivers (For Use with Wireless Transmitter Option)

Trifologo Tranolinator Option,		
MODEL NO.	DESCRIPTION	
UWTC-REC1	48-channel wireless receiver, USB powered	
UWTC-REC2-(*)	48-channel wireless receiver with analog output	
UWTC-REC2-D-(*)	48-channel wireless receiver with analog output and digital display	

^{*} Specify analog output signal: "V1" for 0 to 5 Vdc; "V2" for 0 to 10 Vdc, "TC" for Type K thermocouple, or "MA" for 4 to 20 mA.

Comes complete with operator's manual, one 3.6V lithium C cell battery (two with wireless option), set-up and configuration software (charting and databasing software with common drivers) USB cable, 2.7 m (9') analog output cable and 5-point NIST traceable calibration certificate.

To order wireless option add suffix "-W" to model number for additional cost.

Ordering Examples: DPG409-015DWU, 0 to 15 psi uni-directional differential pressure gauge with analog output.

DPG409-100DWU-W, 0 to 100 psi uni-directional differential pressure gauge with analog output and wireless transmitter.

0 to 500.0

0 to 750.0

0 to 1000

- Configurable 40,000+ Possibilities
- Large 1" digits for high visibility
- User friendly, 4-button interface
- Differential pressure available
- High accuracy (0.08%) options
- Data logging with SD card optional



Overview

We've created a new, user-friendly interface with four clearly labeled buttons and a large 4-digit, backlit display. Full-scale accuracy as high as 0.08% is perfect for applications where accuracy is critical, and 0.25% accuracy is also available for those times when a reliable, easy-to-use gauge is most important. Configure a basic gauge with longlasting battery power or choose an externally powered option to support a robust unit with voltage and/or current outputs.

Another powerful feature is the data logging option. Log your important data as fast as four readings per second so that you don't miss a thing. Data analysis is straightforward with an included SD card that is easily accessible for data retrieval.

All options are built with an engineered thermoplastic housing with an IP65 rating for durability in harsh environments. A protective rubber boot is also an option for additional protection..

Configurable Menu Features

Users have four different operation modes to select from. Normal mode displays the last pressure reading. Tare mode zeros the unit at an applied pressure. Minimum and maximum modes display the lowest and highest recorded pressure readings respectively. There are also additional settings that can be adjusted to best suit your process including the shut-off timer, sampling rate, range plotting, pressure units, and zero-point adjustment.

With the advanced menu, additional features include custom units, dampening mode, password protection, and backlight adjustment. If the 15 engineering unit options don't cover what you need, up to five custom pressure units can be programmed. Dampening mode filters the raw data into a smoother output. Password protection allows only authorized users to change DPG

settings to help avoid accidental button presses and setting changes. Backlight adjustment provides five options to adjust how long the backlight remains on, from 10 seconds to always on to balance both visibility and battery life.

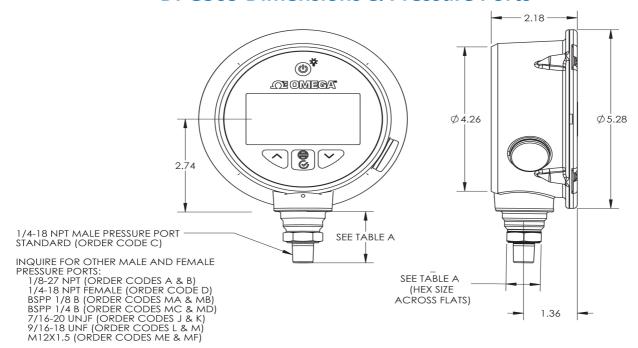
Specifications

	Configuration Option	
Accuracy (Combined Linearity,	25	±0.25% Full Scale Span
Hysteresis and Repeatability)	08	±0.08% Full Scale Span
	В	4 Alkaline AA Batteries are included with all configurations
Power Supply	D	DC Power through M12 connection and 4 Alkaline AA Batteries 6' M12 connector cable included with all configurations that have DC power option
	N	None
	l	4 to 20 mA
	V	0 to 5 Vdc and 0 to 10 Vdc
Output	IV	4 to 20 mA, 0 to 5 Vdc, and 0 to 10 Vdc
	А	Absolute
	D	Differential
Pressure Type	G	Gauge
	В	psi, bar, mbar, inH2O, ftH2O, mmH2O, inHG, mmHG, cmHG, Pa, hPa, kPa, MPa, ATM, TORR
Engineering Units	Α	Includes units listed above and programmable custom units
Protective Rubber Boot	В	Adds another layer of durability to the pressure gauge
Calibration	С	5-point NIST traceable calibration is a configurable option (it does not come standard)
Data Logging	D	8 Gb Micro SD card micro SD is included with configurations that have data logging option Can accept up to 32 Gb Micro SD
Pressure Connection Options	14 options available in configurator	1/4-18 NPT, 1/8-27 NPT, BSPP 1/8 B, BSPP 1/4 B, 7/16-20 UNF (MS33656-04), 9/16-18 UNF, M12x1.5 All connections available as male or female types.
Long Term Stability		±0.3% Span/Year
Battery Life (Typical)		1,000 hours (no backlight usage)
Display		4-digit LCD with backlight and 25 mm (1") character height
User Interface		4 membrane key switches
Minimum Resistance Between Transducer Body and any Wire		100 MOhms @100 VDC
Operating Temperature		-17°C to 54°C (0°F to 130°F)
Storage Temperature (without batteries)		-40°C to 82°C (-40°F to 180°F)
Pressure Cycles	Standard for all units	1 million
Over Pressure	ioi ali ullits	1.5 x rated pressure
Materials		Enclosure: Engineered Thermoplastic Sensor Wetted Parts: 316L Stainless Steel, Viton Seal
Enclosure rotation after securing fluid connection		±150°
Weight		1.25 lbs
Environmental Rating		IP65
CE		EN61326-1: 2012
RoHS		2015/863
Vibration		ASME B40.7

Keypad Table

*	Power / Backlight	Turns the unit on and off / Turn backlight on
\bigcirc	Max / Scroll Up	Displays the maximum reading / Scroll up in menu navigation
	Menu / Enter	Enter / Access the menu / Exit the menu
9	Min / Scroll Down	Displays the minimum reading / Scroll down in menu navigation

DPG509 Dimensions & Pressure Ports



STANDARD (SINGLE-POINT) PRESSURE 0.3 TO 1000 PSI (LOW AND MID RANGE) 0.08% ACCURACY

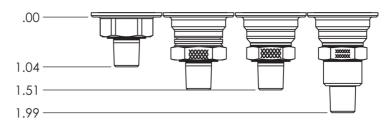
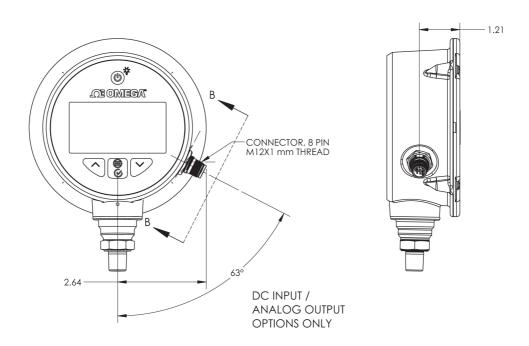
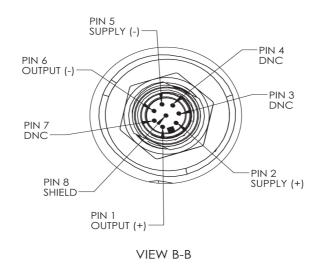


	TABLE A			
PRESSURE RANGES (PSI)	0 TO 500	0 TO 15	30 TO 1000	1500 TO 5000
ACCURACY	±.25 %		±.08 %	
HEX SIZE ACROSS FLATS		1.0	3.	37

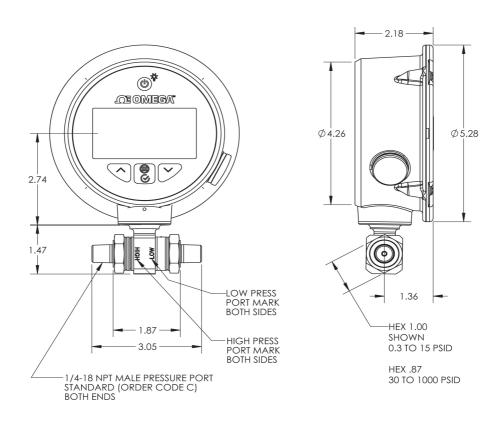
DPG509 Dimensions for Units with DC Power



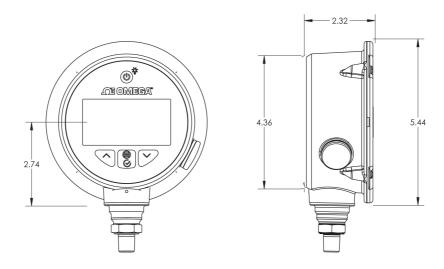
M12 Pin-Out for DC Power and Analog Output



DPG509 Differential Unit Dimensions



DPG509 Protective Boot Dimensions



PROTECTIVE BOOT OPTION -**ENCLOSURE DIMENSIONS**

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Dout woudhou														
Part number	Description	Evenneler	Cartescon	-			24				-	100		
value	Description	Example:	DPG509		Р	100	G	25	٧	В	С	В	-	į
Pressure Unit														
P	PSI													
Pressure Range						•								
A STATE OF THE PARTY OF THE PAR	10 Inches of Water													
	1 PSI													
- Interior	2.5 PSI													
	5 PSI													
	15 PSI													
	30 PSI					-								
	50 PSI													
	100 PSI					100								
- CONT.	150 PSI					100								
	200 PSI													
						-								
	250 PSI					-								
	300 PSI													
100000	500 PSI													
	750 PSI													
	1000 PSI													
	1500 PSI													
	2500 PSI													
	3500 PSI													
5K	5000 PSI													
Pressure Type														
A	Absolute *(unavailable in 10IW, 001, 2.5, 005, and 015 pressure range	ges)												
G	Gauge						G							
D	Differential *(unavailable in ± 0.25% B.S.L. accuracy and pressure rar	nges greater	than 1K ps	i)										
Accuracy														
25	± 0.25% B.S.L.							25						
08	± 0.08% B.S.L.													
Electrical Output								3	ž!					
N	None													
1	4 to 20 mA *(requires DC power source)													
٧	0 to 5 Vdc, and 0 to 10 Vdc *(requires DC power source)								V					
_	0 to 5 Vdc, 0 to 10 Vdc, and 4 to 20 mA *(requires DC power source)													
Power Source														
	Battery									В				
	Battery and DC Power through M12													
Process Fitting											t			
	1/8-27 NPT Male													
	1/8-27 NPT Female													
	1/4-18 NPT Male										С			
	1/4-18 NPT Female													
	7/16-20 UNF Male													
	7/16-20 UNF Female													
	9/16-18 UNF Male													
	9/16-18 UNF Female													
	G 1/8 Male													
	G 1/8 Female													
	G 1/4 Male													
	G 1/4 Female													
	M12 X 1.5 Male													
MF	M12 X 1.5 Female													
Menu Complexity														
	Basic Menu Options Only											В		
	Advanced + Basic Menu Options													
Additional Options														
В	Protective Rubber Boot												J.	В
	Data Logging													ĺ
	Calibration Service													ĺ
												- 1	100	_

^{**} Multiple options can be selected and added to end to part number in alphabetical order (i.e. "-BD" to include both boot and data logging)

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PRESSURE GAUGES

DPG5500 Series-Aluminum Case **DPG5600 Series**-Backlit **DPG3500 Series-Nema 4X Case**





- ✓ Zero with One Touch
- ✓ 316 SS Wetted Parts
- Accuracy
- Optional Backlit Display or NEMA 4X (IP66) **Enclosure Available**

The DPG5500 and DPG3500 gauges are compact units with a full 4-digit display. Available with over 140 possible pressure units, these gauges are powered by 2 "AA" alkaline batteries. All models include a standard 5-minute auto shut-off circuitry to conserve battery life. Units are available in three configurations, with an extruded aluminum or NEMA 4X ABS/ polycarbonate case. Aluminum case models are also available with a backlit display

SPECIFICATIONS

Power: 2 "AA" alkaline included, approximately 2000 hr (150 to 1500 hr for DPG5600 models; low battery indicator

Auto Shut-Off: 5 min standard. Specify "-NS" option at time of order if on/ off button is preferred. (No additional charge for "-NS" option.)

Pressure/Vacuum Reference: Gauge (psig) or absolute (psia)

Optional Units: Gauge is available from the factory scaled in other engineering units, for other ranges. Units include kPa, bar, mbar, inH₂O, mmHg, ftH₂O, torr, and kg/cm². Please consult the OMEGA Pressure Engineering Department for available models.

Display: 4 digit, LCD, 10.16 mm (0.4") digit height, 3 readings per second, nominal update rate

Compensated Temperature: 0 to 70°C (32 to 158°F) Temperature Stability: ±0.5% of span (typical), ±1% of span (maximum) 0 to 82°C (32 to 180°F) Storage Temperature: -40 to 95°C

Pressure/Vacuum Fitting: 1/4 MNPT

Overpressure: 2x sensor pressure range, 3000 psig range = 5000 psi max, 5000 psig range = 7500 psig max. At 110% to 125% out-of-range display 1---- or 1-.-.- depending on the model.

Burst Pressure: 4x sensor pressure rating or 10,000 psi, whichever is less

interactive zero, span and linearity ±10% range

Dimensions: DPG5500/5600: 86 W x 73 H x 42 mm D (3.38 x 2.88 x 1.65") not including the pressure fitting. **DPG3500:** 89 W x 76 H x 51 mm D (3.5 x 3.0 x 2.0") not including the pressure fitting. Add approximately 19 mm (0.75") to the height for the

Aluminum Case

pressure fitting. Weight: 255 g (9 oz); shipping weight: 454 g (1 lb)

Material:

DPG5500/5600: Extruded aluminum case, light gray epoxy powder coated, black ABS/polycarbonate bezel, front and rear gaskets, black/gold label **DPG3500**: ABS/polycarbonate NEMA 4X (IP66) case, rear gasket, polycarbonate lábel Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it



Accuracy: ±0.25% FS ±1 least significant digit; linearity, hysteresis and repeatability combined

Operating Temperature: -20 to 85°C (-4 to 185°F)

(-40 to 203°F)

Wetted Parts: 316 SS

Calibration: Internal controls, non-

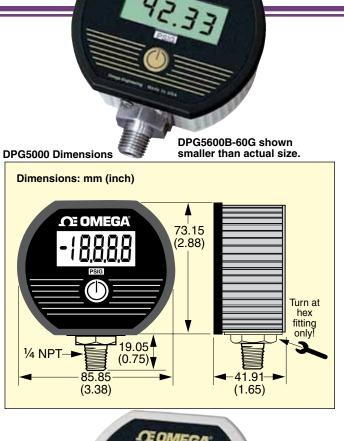
MIN/MAX DIGITAL PRESSURE GAUGES

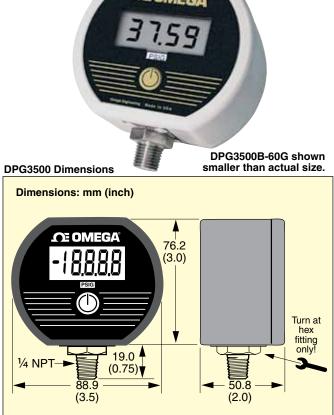
ALL RANG	ES AND RE	SOLUTIONS S	HOWN A	/AILABLE!
-30.00 inHg/	120.0 inHg	1600 mmHg	35.00 bar	1.000 kg/
15.00 psig	000 0 : ::	700.0	70.05	cm² abs
-30.0 inHg/ 100.0 psig	200.0 inHg abs	760.0 torr abs	70.00 bar	1.000 kg/ cm² vac
-30.0 inHg/ 200.0 psig	200.0 inHg	1600 torr abs	140.0 bar	±1.000 kg/cm²
3.000 psig	50.00 oz/in ²	2100 mmH ₂ O	200.0 bar	1.000 kg/cm²
5.000 psig	80.0 oz/in ²	3500 mmH ₂ O	350.0 bar	2.000 kg/ cm² abs
15.00 psi abs	240.0 oz/ in² abs	200.0 cmH ₂ O	20.00 kPa	2.000 kg/cm ²
15.00 psig vac	240.0 oz/ in² vac	350.0 cmH ₂ O	35.00 kPa vac	4.000 kg/cm ²
±15.00 psig	±240.0 oz/ in²	1000 cmH ₂ O	100.0 kPa abs	7.000 kg/ cm² abs
15.00 psig	240.0 oz/in ²	2100 cmH ₂ O	100.0 kPa vac	7.000 kg/ cm ²
30.00 psi abs	85.0 inH ₂ O	200.0 mbar	±100.0 kPa	14.00 kg/cm²
30.00 psig	140.0 inH ₂ O	350.0 mbar	100.0 kPa	20.00 kg/cm ²
60.00 psig	400.0 inH ₂ O	1000 mbar abs	200.0 kPa abs	35.00 kg/cm²
100.0 psi abs	400.0 inH ₂ O vac	1000 mbar vac	200.0 kPa	70.00 kg/cm ²
100.0 psig	±400 inH ₂ O	±1000 mbar	400.0 kPa	140.0 kg/cm ²
200.0 psig	400.0 inH ₂ O	1000 mbar	700.0 kPa abs	200.0 kg/cm ²
300.0 psig	850 inH ₂ O	2000 mbar abs	700.0 kPa	350.0 kg/cm ²
500.0 psig	7.000 ftH ₂ O	2000 mbar	1500 kPa	1.000 atm abs
1000 psig	12.00 ftH ₂ O	4000 mbar	2000 kPa	±1.000 atm
2000 psig	35.00 ftH ₂ O	1.000 bar abs	3500 kPa	1.000 atm
3000 psig	70.00 ftH ₂ O	1.000 bar vac	5000 kPa	4.000 atm
5000 psig	140.0 ftH ₂ O	±1.000 bar	3.500 MPa	7.000 atm
6.000 inHg	230.0 ftH ₂ O	1.000 bar	7.000 MPa	14.00 atm
10.00 inHg	480.0 ftH ₂ O	2.000 bar abs	14.00 MPa	20.00 atm
30.00 inHg abs	150.0 mmHg	2.000 bar	20.00 MPa	35.00 atm
30.00 inHg vac	260.0 mmHg	4.000 bar	35.00 MPa	70.00 atm
±30.00 inHg	760.0 mmHg abs	7.000 bar abs	1000 g/ cm² abs	135.0 atm
30.00 inHg	760.0 mmHg vac	7.000 bar	1000 g/ cm ²	200.0 atm
60.00 inHg abs	760.0 mmHg	14.00 bar	2100 g/ cm² abs	340.0 atm
60.00 inHg	1600 mmHg	20.00 bar	2100 g/ cm ²	

Resolution is fixed as indicated in table. Ranges in bold are standard. Contact Omega Engineering for other ranges listed above. **abs:** Absolute reference (normally reads atmospheric pressure; reads

zero at full vacuum).

vac: Vacuum gauge, minus sign not used unless specified.





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DPG5500B-60G shown smaller than actual size.

Specify model DPG5600B for backlit display



DPG3500B-60G shown smaller than actual size.

Specify model DPG3600B for backlit display



CONTROLS AND FUNCTIONS

(FRONT PUSHBUTTON TURNS THE GAUGE ON OR OFF AND CYCLES THROUGH OTHER FUNCTIONS)

(,
FUNCTION	PUSHBUTTON	PROMPT (Release Button)	RESULT
On	Press 1 sec	Gauge range/display test	Actual pressure
On with Zero	Press/hold	0000	Actual pressure
Hi Reading	Press/hold	HI	Hi & max reading
Lo Reading	Press/hold	LO	Lo & min reading
Normal Read	Press/hold	AP	Actual pressure
Clear Hi/Lo	Press/hold	HI/L0/AP>cIr	Actual pressure
Off	Press/hold	HI/L0/AP>cIr>0FF	Gauge off

To Order Visit omega.com/dpg5500 for Pricing and Details						
RANGE/ RESOLUTION/ MODELS	MODEL NO. BASIC MODELS	MODEL NO. ¹ NEMA 4X (IP66)				
0 to 3.000 psig	DPG5500B-03G	DPG3500B-03G				
0 to 5.000 psig	DPG5500B-05G	DPG3500B-05G				
0 to 15.00 psig Vac	DPG5500B-15VAC	DPG3500B-15VAC				
0 to 15.00 psig	DPG5500B-15G	DPG3500B-15G				
0 to 30.00 psig	DPG5500B-30G	DPG3500B-30G				
0 to 60.00 psig	DPG5500B-60G	DPG3500B-60G				
0 to 100.0 psig	DPG5500B-100G	DPG3500B-100G				
0 to 200.0 psig	DPG5500B-200G	DPG3500B-200G				
0 to 300.0 psig	DPG5500B-300G	DPG3500B-300G				
0 to 500.0 psig	DPG5500B-500G	DPG3500B-500G				
0 to 1000 psig	DPG5500B-1KG	DPG3500B-1KG				
0 to 2000 psig	DPG5500B-2KG	DPG3500B-2KG				
0 to 30.00 inHg Vac	DPG5500B-30INHGVAC	DPG3500B-30INHGVAC				
30.00 mmHg to 100.0 psig	DPG5500B-30V100G	DPG3500B-30V100G				
0 to 15.00 psia	DPG5500B-15A	DPG3500B-15A				
0 to 30.00 psia	DPG5500B-30A	DPG3500B-30A				
0 to 760.0 torr abs	DPG5500B-760TORRA	DPG3500B-760TORRA				
0 to 85.0 inH ₂ Og	DPG5500B-85INH2OG	DPG3500B-85INH2OG				
0 to 140.0 inH ₂ Og	DPG5500B-140INH2OG	DPG3500B-140INH2OG				
0 to 1.000 barg	DPG5500B-1BARG	DPG3500B-1BARG				
0 to 7.000 barg	DPG5500B-7BARG	DPG3500B-7BARG				
0 to 14.00 barg	DPG5500B-14BARG	DPG3500B-14BARG				

Comes complete with operator's manual.

Ordering Examples: DPG5500B-30G, 0 to 30.00 psig, 1/4 NPT lower fitting, battery powered, min/max/zero.

DPG5600B-30G, 0 to 30.00 psig with ½ NPT lower fitting, battery powered, with a backlit display, min/max/zero.

DPG3500B-30G. 0 to 30.00 psia. ¼ NPT lower fitting. battery powered. min/max/zero. NEMA 4X (IP66) housing.

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^{1.} Backlit Display in DPG3500B: Specify model DPG3600B; Backlit display in DPG5500B: Specify model DPG5600B, for additional cost.

^{2.} Panel Mount Option: add "-PM" to model number. Not available with NEMA 4X housing units. Must be ordered with unit (for additional cost) - cannot be field installed at a later date.

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PRESSURE GAUGES

DPG5500 Series-Aluminum Case OR Backlit

\$tarts at \$289



- Capture Minimum and Maximum Readings
- Zero with One Touch
- ✓ 316 SS Wetted Parts
- Optional Backlit Display or NEMA 4X (IP66) Enclosure Available

The DPG5500 gauge is compact units with a full 4-digit display. Available with over 140 possible pressure units, these gauges are powered by 2 "AA" alkaline batteries. All models include a standard 5-minute auto shut-off circuitry to conserve battery life. Units are available in three configurations, with an extruded aluminum or NEMA 4X ABS/polycarbonate case. Aluminum case models are also available with a backlit display

SPECIFICATIONS

Power: 2 "AA" alkaline included, approximately 2000 hr (150 to 1500 hr for DPG5600 models; low battery indicator

Auto Shut-Off: 5 min standard. Specify "-NS" option at time of order if on/off button is preferred. (No additional charge for "-NS" option.)

Pressure/Vacuum Reference: Gauge (psig) or absolute (psia)

Optional Units: Gauge is available from the factory scaled in other engineering units, for other ranges. Units include kPa, bar, mbar, inH₂O, mmHg, ftH₂O, torr, and kg/cm².

Please consult the OMEGA Pressure Engineering Department for available models.

Display: 4 digit, LCD, 10.16 mm (0.4") digit height, 3 readings per second, nominal update rate

DPG5500B-60G, \$289, shown actual size.



Accuracy: ±0.25% FS ±1 least significant digit; linearity, hysteresis and repeatability combined

Operating Temperature: -20 to 85°C (-4 to 185°F)

Compensated Temperature: 0 to 70°C (32 to 158°F)

Temperature Stability: ±0.5% of span (typical), ±1% of span (maximum) 0 to 82°C (32 to 180°F) **Storage Temperature:** -40 to 95°C (-40 to 203°F)

Pressure/Vacuum Fitting: ¼ MNPT

Wetted Parts: 316 SS

Overpressure: 2x sensor pressure range, 3000 psig range = 5000 psig max, 5000 psig range = 7500 psig max. At 110% to 125% out-of-range display 1---- or 1-.-.- depending on the model.

Burst Pressure: 4x sensor pressure rating or 10,000 psi, whichever is less

Calibration: Internal controls, non-interactive zero, span and linearity ±10% range

Dimensions:

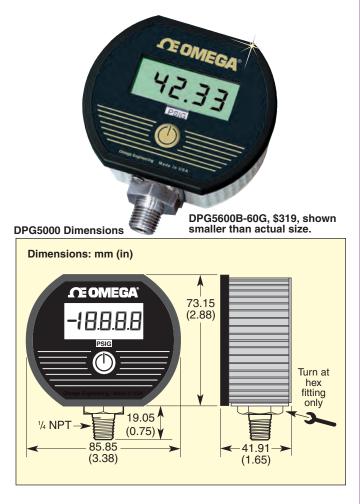
86 W x 73 H x 42 mm D (3.38 x 2.88 x 1.65") not including the pressure fitting.

Weight: 255 g (9 oz); shipping weight: 454 g (1 lb)

Material: Extruded aluminum case, light gray epoxy powder coated, black ABS/ polycarbonate bezel, front and rear gaskets, black/gold label

MIN/MAX DIGITAL PRESSURE GAUGES

				/AU ADI EI
		SOLUTIONS S		
-30.00 inHg/ 15.00 psig	120.0 inHg	1600 mmHg	35.00 bar	1.000 kg/ cm² abs
-30.0 inHg/ 100.0 psig	200.0 inHg abs	760.0 torr abs	70.00 bar	1.000 kg/ cm² vac
-30.0 inHg/ 200.0 psig	200.0 inHg	1600 torr abs	140.0 bar	±1.000 kg/cm²
3.000 psig	50.00 oz/in²	2100 mmH ₂ O	200.0 bar	1.000 kg/cm²
5.000 psig	80.0 oz/in ²	3500 mmH ₂ O	350.0 bar	2.000 kg/ cm² abs
15.00 psi abs	240.0 oz/ in² abs	200.0 cmH ₂ O	20.00 kPa	2.000 kg/cm ²
15.00 psig vac	240.0 oz/ in² vac	350.0 cmH ₂ O	35.00 kPa vac	4.000 kg/cm ²
±15.00 psig	±240.0 oz/ in²	1000 cmH ₂ O	100.0 kPa abs	7.000 kg/ cm² abs
15.00 psig	240.0 oz/in ²	2100 cmH ₂ O	100.0 kPa vac	7.000 kg/ cm ²
30.00 psi abs	85.0 inH ₂ O	200.0 mbar	±100.0 kPa	14.00 kg/cm²
30.00 psig	140.0 inH ₂ O	350.0 mbar	100.0 kPa	20.00 kg/cm ²
60.00 psig	400.0 inH ₂ O	1000 mbar abs	200.0 kPa abs	35.00 kg/cm ²
100.0 psi abs	$^{\rm 400.0\;inH_2O}_{\rm vac}$	1000 mbar vac	200.0 kPa	70.00 kg/cm²
100.0 psig	±400 inH ₂ O	±1000 mbar	400.0 kPa	140.0 kg/cm²
200.0 psig	400.0 inH ₂ O	1000 mbar	700.0 kPa abs	200.0 kg/cm ²
300.0 psig	850 inH ₂ O	2000 mbar abs	700.0 kPa	350.0 kg/cm²
500.0 psig	7.000 ftH ₂ O	2000 mbar	1500 kPa	1.000 atm abs
1000 psig	12.00 ftH ₂ O	4000 mbar	2000 kPa	±1.000 atm
2000 psig	35.00 ftH ₂ O	1.000 bar abs	3500 kPa	1.000 atm
3000 psig	70.00 ftH ₂ O	1.000 bar vac	5000 kPa	4.000 atm
5000 psig	140.0 ftH ₂ O	±1.000 bar	3.500 MPa	7.000 atm
6.000 inHg	230.0 ftH ₂ O	1.000 bar	7.000 MPa	14.00 atm
10.00 inHg		2.000 bar abs	14.00 MPa	20.00 atm
30.00 inHg abs	150.0 mmHg		20.00 MPa	35.00 atm
30.00 inHg vac	260.0 mmHg	4.000 bar	35.00 MPa	70.00 atm
±30.00 inHg	760.0 mmHg abs	7.000 bar abs	1000 g/ cm² abs	135.0 atm
30.00 inHg	760.0 mmHg vac	7.000 bar	1000 g/ cm ²	200.0 atm
60.00 inHg abs	760.0 mmHg	14.00 bar	2100 g/ cm² abs	340.0 atm
60.00 inHg	1600 mmHg	20.00 bar	2100 g/ cm ²	



Resolution is fixed as indicated in table. Ranges in **bold** are standard.

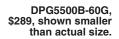
Contact Omega Engineering for other ranges listed above.

abs: Absolute reference (normally reads atmospheric pressure; reads

zero at full vacuum).

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CONTROLS AND FUNCTIONS (FRONT PUSHBUTTON TURNS THE GAUGE ON OR OFF AND CYCLES THROUGH OTHER FUNCTIONS)

`			,
FUNCTION	PUSHBUTTON	PROMPT (Release Button)	RESULT
On	Press 1 sec	Gauge range/display test	Actual pressure
On with Zero	Press/hold	0000	Actual pressure
Hi Reading	Press/hold	HI	Hi & max reading
Lo Reading	Press/hold	L0	Lo & min reading
Normal Read	Press/hold	AP	Actual pressure
Clear Hi/Lo	Press/hold	HI/L0/AP>cIr	Actual pressure
Off	Press/hold	HI/L0/AP>cIr>0FF	Gauge off

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)						
RANGE/ RESOLUTION/ MODELS	MODEL NO. BASIC MODELS	PRICE	MODEL NO. BACKLIT MODELS	PRICE		
0 to 3.000 psig	DPG5500B-03G	\$289	DPG5600B-03G	\$319		
0 to 5.000 psig	DPG5500B-05G	289	DPG5600B-05G	319		
0 to 15.00 psig Vac	DPG5500B-15VAC	289	DPG5600B-15VAC	319		
0 to 15.00 psig	DPG5500B-15G	289	DPG5600B-15G	319		
0 to 30.00 psig	DPG5500B-30G	289	DPG5600B-30G	319		
0 to 60.00 psig	DPG5500B-60G	289	DPG5600B-60G	319		
0 to 100.0 psig	DPG5500B-100G	289	DPG5600B-100G	319		
0 to 200.0 psig	DPG5500B-200G	289	DPG5600B-200G	319		
0 to 300.0 psig	DPG5500B-300G	289	DPG5600B-300G	319		
0 to 500.0 psig	DPG5500B-500G	289	DPG5600B-500G	319		
0 to 1000 psig	DPG5500B-1KG	289	DPG5600B-1KG	319		
0 to 2000 psig	DPG5500B-2KG	289	DPG5600B-2KG	319		
0 to 30.00 inHg Vac	DPG5500B-30INHGVAC	289	DPG5600B-30INHGVAC	319		
30.00 mmHg to 100.0 psig	DPG5500B-30V100G	309	DPG5600B-30V100G	339		
0 to 15.00 psia	DPG5500B-15A	309	DPG5600B-15A	339		
0 to 30.00 psia	DPG5500B-30A	309	DPG5600B-30A	339		
0 to 760.0 torr abs	DPG5500B-760TORRA	309	DPG5600B-760TORRA	339		
0 to 85.0 inH ₂ Og	DPG5500B-85INH2OG	309	DPG5600B-85INH2OG	339		
0 to 140.0 inH ₂ Og	DPG5500B-140INH2OG	309	DPG5600B-140INH2OG	339		
0 to 1.000 barg	DPG5500B-1BARG	309	DPG5600B-1BARG	339		
0 to 7.000 barg	DPG5500B-7BARG	309	DPG5600B-7BARG	339		
0 to 14.00 barg	DPG5500B-14BARG	309	DPG5600B-14BARG	339		

Comes complete with operator's manual.

Ordering Examples: DPG5500B-30G, 0 to 30.00 psig, $\frac{1}{4}$ NPT lower fitting, battery powered, min/max/zero, **\$289. DPG5600B-30G**, 0 to 30.00 psig with $\frac{1}{4}$ NPT lower fitting, battery powered, with a backlit display, min/max/zero, **\$319.**

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Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters

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• click here to go to the omega.com home page •

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0.10% TEST GAUGE

TERMINAL POINT, TOTAL ERROR BAND ACCURACY

FROM -18 to 66°C (0 to 150°F)

DPG7000 0.05% Accuracy **DPG7010** 0.10% Accuracy **DPG7025** 0.25% Accuracy

DPG7010 Series



- ✓ 0.05, 0.10 and 0.25% FS **Accuracy Models**
- ✓ 12 User-Selectable Units of Measure
- ✓ Large 17 mm (0.66") Display with % of Range Bar Graph
- ✓ All Stainless Steel **Wetted Parts and Case**
- **✓** NEMA 4 (IP65) **Weatherproof Case**
- Programmable for 7 Languages

The DPG7000 Series comprises high-accuracy digital test gauges designed for the most demanding applications. These gauges feature a 0.05% total error band, which includes linearity, hysteresis, repeatability, and temperature effects from -18 to 66°C (0 to 150°F). The all stainless steel wetted parts and case carry a NEMA 4 (IP65) rating.

A variety of user-configurable options—including languages, update rate, dampening, backlight, and auto-off—greatly increase the DPG7000's versatility. All units include a stainless steel protective cover and carrying case. A 10-point individual calibration chart is standard with 0.05% accuracy units. SPECIFICATIONS

Accuracy:

DPG7000: 0.05% FS total error band accuracy **DPG7010:** 0.10% FS

total error band accuracy DPG7025: 0.25% FS

total error band accuracy

Terminal Point: Total error band (TEB) including hysteresis, linearity, repeatablilty and temperature from -18 to 66°C (0 to 150°F)

Calibrate: Zero and Span (password protected)

CASE

Size: 76 mm (3")

Material: 300 Series Stainless Steel

Finish: Electropolished

Rating: Weatherproof, IP65, NEMA 4

Wetted Parts: 316 Stainless Steel

Socket Size: 1/4 NPT Male Socket Location: Lower (6 o'clock)

Mounting: Stem

Operating Temperature: -18 to 63°C

(0 to 150°F)

Storage Temperature: -40 to 82°C

(-40 to 180°F)

Temperature Correction:

-18 to 63°C (0 to 150°F); included in accuracy specification

Power: 3 "AAA" alkaline batteries,

included

Battery Life: >1000 hr

Auto Off: Five Options: Never, 2 min.,

5 min., 15 min., 30 min.

Agency Approvals: CE EN 50082-1

(1997), FM, CSA

Note: FM/CSA approval not available on vacuum range and vacuum/15# ranges

Calibration Chart: 10 point individual calibration chart, standard for

DPG7025 models

DPG7000; optional for DPG7010 and

Standard Features: 300 Series SS Protective Cover, Protective

Carrying Pouch

100%

ENTER

100 psi

Optional Features: Pressure port type and location, panel mounting; consult

Backlit

Display Standard!

> DPG7010 shown actual size.

> > Stainless steel cover included.

engineering for details

DISPLAY

Type: LCD, with bar graph;

backlight standard

Display Digits: 5, 99,999 counts Character Height: 16.7 mm (0.66") Engineering Units: psi, inHg, inH2O, ftSW, Bar, mBar, kPa, mPa, mmHg,

cmH₂O, mmH₂O, kg/cm²

Update Rate: Four Options: 10x/sec.

5x/sec, 2x/sec, 1x/sec

Dampening: Five Options; None, average 2, 4, 6, 8 readings

Language: Seven Languages; English, Spanish, French, Italian, German,

Portuguese, Dutch

Backlight: Five Options; On/off, 10 sec., 30 sec., 1 min., 5 min. Zero Disable: Allows for disabling of

Zero button

Contrast: Seven available options Disable: Allows for "lock-out" of

CONFIG options

KEYPAD FUNCTIONS

On/Off: Manually turns unit on and off Backlight: Manually turns backlight on

and off

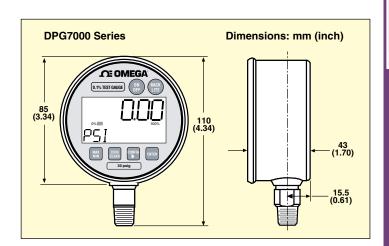
Minimum/Maximum: Stores minimum and maximum values when displayed

Zero/Clear: Zeros display or clears minimum and maximum values when displayed

Enter: Selects items in configuration menu Config: Configuration mode; allows scrolling through configuration menus to select available options

HIGH-ACCURACY GAUGES

•••	THOUGH B	11	Office	JO.10 11	IIO C TOIII
	vac.	15 and vac.	-100/0	1	-1 to 0
	5	30 and vac.	25	1.6	-1 to 1
	10	60 and vac.	40	2.5	-1 to 2
	15	100 and vac.	60	4	-1 to 3
	30		100	6	-1 to 30
7	60		160	10	
	100		250	16	
	160		400	25	
	200		600	40	
	300		1000	60	
	500			160	
*0	600			250	
g	800			400	
<u>۾</u>	1000			500	
User-Selectable Ranges*	2000				
<u>o</u>	2500				
ab	3000				
ਹ	5000				
<u>\$</u>	7000				
Ϊ́Ϋ́			mbar/	Absolute	
<u>+</u>	mmH ₂ O	mPa	cmH ₂ O	(psia)	
Š	3000	1	250	15	
–	5000	1.6	300	25	
	10,000	2.5	400	50	
		6	500		
		40	600	* Order ps	si range
			1000	closest to	full
			1600	scale rang units desii	ge of the
			2000		
			2500	units selec	
			4000	programm front-pane	able via the
			5000	noni-pane	i ballons.
			6000		
1			10,000		



To Order				
RANGE		MODEL NO.	MODEL NO.	MODEL NO.
psig	bar	0.25% ACCURACY	0.10% ACCURACY	0.05% ACCURACY
0 to -14.7	0 to -1	DPG7025-Vac	DPG7010-Vac	DPG7000-Vac
-14.7 to 15	-1 to 1	DPG7025-Vac/15	DPG7010-Vac/15	DPG7000-Vac/15
-14.7 to 30	-1 to 2	DPG7025-Vac/30	DPG7010-Vac/30	DPG7000-Vac/30
0 to 10	0 to 0.7	DPG7025-10	DPG7010-10	DPG7000-10
0 to 15	0 to 1	DPG7025-15	DPG7010-15	DPG7000-15
0 to 30	0 to 2	DPG7025-30	DPG7010-30	DPG7000-30
0 to 60	0 to 4	DPG7025-60	DPG7010-60	DPG7000-60
0 to 100	0 to 7	DPG7025-100	DPG7010-100	DPG7000-100
0 to 200	0 to 13	DPG7025-200	DPG7010-200	DPG7000-200
0 to 300	0 to 20	DPG7025-300	DPG7010-300	DPG7000-300
0 to 500	0 to 34	DPG7025-500	DPG7010-500	DPG7000-500
0 to 1000	0 to 69	DPG7025-1K	DPG7010-1K	DPG7000-1K
0 to 2000	0 to 138	DPG7025-2K	DPG7010-2K	DPG7000-2K
0 to 3000	0 to 207	DPG7025-3K	DPG7010-3K	DPG7000-3K
0 to 5000	0 to 345	DPG7025-5K	DPG7010-5K	DPG7000-5K
0 to 7000	0 to 483	DPG7025-7K	DPG7010-7K	DPG7000-7K

ACCESSORY

MODEL NO.	DESCRIPTION
DPG7000-ABS-CASE	Weatherproof ABS gauge carrying case

Comes complete with stainless steel cover, padded carrying case and operator's manual. DPG7000 0.05% units also include NIST-traceable calibration certificate.

Note: To order a range not shown in the "Most Popular Models" above, replace the range in the model number (the numbers and letters after the "-" with the range and units you need from the "Available Range" chart (i.e., **DPG7010-25** psia is a 0 to 25 psi absolute gauge with 0.10% accuracy).

Ordering Examples: DPG7010-Vac/15, compound range, vacuum to 15 psi gauge digital pressure gauge, 0.10% accuracy.

DPG7025-100. 100 psi gauge pressure digital pressure gauge. 0.25% accuracy.

[†] To order DPG7025 or DPG7010 units with optional NIST traceable calibration certificate, add suffix "-NIST" to model number for additional cost.

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PRESSURE GAUGE **WITH 0.25% TERMINAL POINT ACCURACY**

Ranges from Vacuum to 25,000 psi (30 inHg to 1724 bar)

DPG8001 Series



- ✓ 0.25% Full Scale Terminal **Point Accuracy Typical**
- ✓ Enhanced Value vs. **Mechanical Gauge**
- ✓ 5 Digit LCD Display with Large 12.2 mm (0.48") Digits
- ∠ 20 Segment Bar **Graph Display**
- ✓ User-Selectable **Engineering Units**
- ✓ MIN/MAX Readings
- ✓ Tare Function Standard
- Environmentally Protected to NEMA 4X (IP65)
- ✓ All Stainless Steel **Wetted Parts**

The DPG8001 Series digital pressure gauges offer 0.25% full scale terminal point accuracy in a rugged easy-to-use unit and is price comparable to that of mechanical test gauges. All Stainless Steel wetted parts make them suitable for a wide variety of industrial liquids and gaseous media. This series features user-selectable engineering units, allowing one gauge to be used for a variety of pressure scales.

The DPG8001 comes standard with many features that are either not available or extra cost options on many competitive digital gauges such as a tare, 20 segment bar graph MIN/MAX Memory, 9 engineering units and backlighting

for easy reading.



SPECIFICATIONS

Accuracy: 0.25% FS terminal point (0.5% full scale terminal point for ranges 15 psi, 30 Vac, 30V15 and 30V30)

Ranges: Vacuum through 25,000 psi gauge, vacuum and compound gauge Battery: Two "AA" alkaline included Battery Life: 2000 hr. minimum Battery Indicator: 4 levels Media Temperature: -20 to 80°C

(-4 to 176°F)

Operating Temperature: -20 to 60°C

(-4 to 140°F)

Temperature Effects: 0.04%/°F (-20 to 180°F) zero and span

Update Rate: 1 Hz Cycle Life: 10 million

Vibration: MIL-STD-202G Method 201A Shock: MIL-STD-202G Method 213 B

Display: 4 or 5-digit based upon resolution available

Bar Graph: 20 segment vertical

bar graph

Digit Height: 12.2 mm (0.48") upper line;

6.1 mm (0.24") lower line

Display Indicators: 4-segment battery life indicator plus dedicated icons for gauge timer, backlight timer, tare, min and max

View Angle: 12 o'clock Backlight: Standard, blue

Enclosure Material (Case and Back):

Polycarbonate/ABS Window: Polycarbonate

Enclosure Rating: NEMA 4X (IP67)

Protective Boot: Standard

Serial Number: Yes

Proof Pressure

Vac to <300 psi: 200% range 300 to <5000 psi: 150% range 5000 to 25,000 psi: 120% range

Burst Pressure

Vac to <300 psi: 800% range **300 to <5000 psi:** 500% range 5000 to 25,000 psi: 300% range

Keypad Functions

3 Key with Multi Press Functionality On/Off: Power symbol and enter Zero: Zero, tare, and scroll up arrow Menu: access, backlight, down arrow

Engineering Units: psi, bar, inHg, cmHg, mmHg, kPa, mPa, kg/cm², ftH2O, custom units, except on compound gauge ranges

Auto-Off: Programmable for 1, 5 or 20

minutes or none for on/off

Display Update: Adjustable for 1 sec.

500 msec or 250 msec

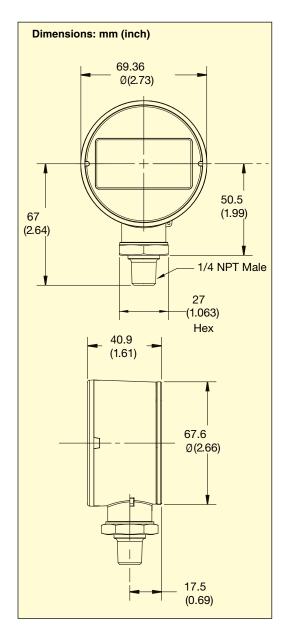
Agency Approvals: CE (heavy industrial), ASME B40.7, RoHs, UL 61010/cUL pending

Connection: 1/4 NPT male, lower position up to 10,000 psi >10,000 psi: %16-18 UNF Female

AMÍNCO

Dimensions: 27 mm Hex (11/16") Wetted Parts: 17-4 SS & 316L SS

laser welded



To Order			
RANGE/RESOLUTION	MODEL NO.		
VACUUM AND COMPOUND	GAUGE RANGES		
30.00 inHg to 0	DPG8001-VAC		
30.00 inHg to 15.00 psi	DPG8001-30V15		
30.00 inHg to 30.00 psi	DPG8001-30V30		
30.00 inHg to 60.00 psi	DPG8001-30V60		
30.00 inHg to 100.0 psi	DPG8001-30V100		
30.00 inHg to 150.0 psi	DPG8001-30V150		
30.00 inHg to 300.0 psi	DPG8001-30V300		
GAUGE PRESSURE (PSI)			
0 to 15.00	DPG8001-15		
0 to 30.00	DPG8001-30		
0 to 60.00	DPG8001-60		
0 to 100.0	DPG8001-100		
0 to 200.0	DPG8001-200		
0 to 300.0	DPG8001-300		
0 to 500.0	DPG8001-500		
0 to 1000	DPG8001-1K		
0 to 1500	DPG8001-1.5K		
0 to 2000	DPG8001-2K		
0 to 3000	DPG8001-3K		
0 to 5000	DPG8001-5K		
0 to 10,000	DPG8001-10K		
0 to 15,000	DPG8001-15K [†]		
0 to 20,000	DPG8001-20K [†]		
0 to 25,000	DPG8001-25K [†]		

Comes complete with protective rubber boot, 2 "AA" batteries, and operator's manual. † 15,000, 20,000 and 25,000 psi models supplied with female AMINCO % -18 UNF female AMINCO fitting.

Ordering Examples: DPG8001-15, digital pressure gauge with range of 0 to 15 psi with protective rubber boot and backlight.

DPG8001-30V30, digital pressure gauge with range of 30" Hg Vacuum to 30 psi compound gauge pressure with protective rubber boot and backlight.

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METRIC FITTINGS AND RANGES

0.08% ACCURACY WITH STAINLESS STEEL WETTED PARTS AND BODY

Gauge Pressure: 0-25 mb

to 0-345 bar

Sealed Gauge: 0-7 bar to 0-345 bar

Absolute Pressure: 0-350 mb

to 0-345 bar

Compound Gauge: ±25 mb to

±1 bar

Vacuum (Negative Gauge): 0 to -25 mb to 0 to -1 bar Barometric: 0-1100 hPa to

880-1100 hPa

DPGM409 Series



- ✓ 5-PT NIST Traceable Calibration Included
- ✓ High 0.08% Accuracy
- ✓ Easy to Read 25 mm (1") **Backlit LCD Display**
- ✓ Hi and Lo Alarms Standard
- MIN/MAX/AVG Reading
- User Selectable Analog Output 0 to 5 Vdc, 0 to 10 Vdc or 4 to 20 mA
- ✓ Included Setup and **Service Software Allows** for Fast Maintenance and Calibration via USB Connection
- ✓ Wireless Transmitter **Optional**
- **✓** Wireless Models Include **Data Logging Software** for Remote Recording and Charting
- CE Certified
- ✓ Battery Powered with **Long Battery Life**
- Analog Output Standard

(included). Fast Delivery -Typically Stock to 2-Weeks! OMEGA's DPGM409 digital pressure gauge incorporates a rugged 316 SS enclosure designed for washdown and marine applications with a precision 0.08% accuracy pressure transducer with 316L SS wetted parts and body. The result is an extremely durable digital pressure gauge designed to survive harsh industrial environments. The large 25 mm (1") display is easy to read at a distance up to 11 m (36'). Models are available in Gauge, Sealed Gauge, Compound Gauge, Absolute, Vacuum and Barometric pressure ranges. Standard feature's include a highly stable silicon sensor, selectable MIN/MAX and AVG readings, Hi and LO alarms and an

externally powered user selectable analog output. An optional wireless transmitter feature with software allows the signal to be transmitted to a remote location such as a PC for charting and data logging. Power is from an internal long life battery (included) or an externally supplied dc voltage source. Each unit is supplied with configuration software that allows the user to connect to a PC via a standard USB connection (cable included) and select a variety of user configurable features including sample interval, units, and backlight.

Note: Because of transmission frequency

regulations, wireless models may only be used in the US, Canada and Europe. Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it



SPECIFICATIONS CE Compliant: Meets EN61326-1: 2006 for industrial locations with analog output cables less than 30 m (98')

Accuracy (Combined Linearity, Hysteresis and Repeatability): ±0.08% BSL (0.15% max in 10V/m RF field) (compound gauge calibrated in positive direction only)

Temperature:

Storage: -40 to 82°C (-40 to 180°F) Compensated: -18 to 66°C (0 to 150°F)

Thermal Effects (Over Compensated Range): Żero Shift:

Ranges >350 mb: ±0.3% span Ranges ≤350 mb: ±0.5% span

Span Shift:

Ranges >350 mb: ±0.3% span Ranges ≤350 mb psi: ±0.5% span

Minimum Resistance Between Transducer Body and Any Wire: 100MΩ @ 50 Vdc

Pressure Cycles: 1 million minimum Long Term Stability (1-yr):

±0.1% FS typical

Analog Output: User selectable 0 to 5 Vdc, 0 to 10 Vdc or 4 to 20 mA (external 24 Vdc power supply required)

Note: Compound gauge ranges have a unidirectional analog output equal to their full span; i.e. -350 to 350 mb = 0 to 10 Vdc.

Analog Output: **Cable:** 2.7 m (8.9') Accuracy: 0.08% typical

Overpressure: Gauge/sealed gauge

25 mb: 10 times span 70 mb: 6 times span

170 mb to 100 bar: 4 times span **175 to 350 bar:** 500 bar max Absolute/Barometric Ranges: 350 mb to 100 bar: 4 times span

175 to 350 bar: To 500 bar abs Containment Pressure: Gauge and Sealed Gauge pressure

25 to 350 mbar: To 70 bar 1 to 70 bar: To 200 bar **100 to 350 bar:** To 700 bar Absolute/Barometric Pressure:

350 mb to 70 bar: to 400 bar

Display: 4-digit LCD with user selectable backlighting, (9999 count) 25 mm (1") character height

Computer Interface: USB connection for set-up, cable included

Update Rate: User selectable from 0.25 to 10 sec. (preset to 1/sec)

Alarms: User selectable "High" and "Low" alarm limits (open collector)

Power: One 3.6V lithium 8.4 Ah capacity (C cell) Included (two with wireless option) (replacement battery

New security feature uses magnetic stylus (included) for keypad activation. No

accidental button presses.

Perfect for dirty hands or if

wearing gloves.

Battery Life (Typical): Up to 9 months **Enclosure:**

Material: 316 Stainless Steel and

ABS center gasket

Finish: Brushed 316 stainless steel

Environmental Rating:

Weatherproof, NEMA 4X (IP65)

Sensor Wetted Parts: 316L Stainless Steel

Pressure Connection: G1/4 male

Dimensions:

BATT-C-3.6V)

Display: 115 L x 89 W x 74 mm D

(4.5 x 3.5 x 2.9")

Sensor: 72 to 89 mm L (2.8 x 3.5")

below display

Weight: 900 g (32 oz) Typical depending upon configuration

Front Panel Functions

Backlight: Manually turns backlight on/off Min/Max: Recalls min/max values Zero/Clear: Zeros display or clears min/

max

Software Settings (via USB)

Update Rate: 4 options, 10, 5, 2, 1 times per second

Units: psi, inHg, inH2O, bar, mbar, hPa units; must be specified at time of order

Lock: Allows the lock-out of front panel functions

Analog Output: User Selectable 0 to 5 Vdc, 0 to 10 Vdc, or 4 to 20 mA (requires external 24 Vdc power) Backlight: On/off, 10 sec, 30 sec,

1 min, 5 min

E OMEGA

C

BAR

Wireless Transmitter (Optional): Channel number, transmission rate, alarms, sensor offset, chart recording, data logging

Overrange Indication: "_ **Wireless Option Specifications**

Transmit Sample Rate: User programmable from 1 sample/2 min to 1 sample/2 sec

Radio Frequency (RF) Transceiver Carrier: ISM 2.4 GHz

RF Output: 10 dBm (10 mW) Range of RF Link:

Outdoors (Line of Sight): Up to 120 m (400')

Indoors/Urban: Up to 40 m (130')

Included Software: Requires Windows®

7 (32 bit); XP or Vista

Internal Battery: Two 3.6V lithium 8.4 Ah capacity (C-cell) included, (replacement battery BATT-C-3.6V)

Data Transmission to Host: Pressure reading, ambient temperature reading, RF transmit strength and battery level

ftp://ftp.omega.com/public/DASGroup/products/dpg409/

The DPG configuration wizard provides a convenient USB interface with your device. Please refer to the manual for details on setting up your device.



UWTC-REC2-D. 48-channel wireless receiver with analog output and display.

Wireless Receivers (For Use with **Wireless Transmitter Option)**

MODEL NO.	DESCRIPTION
UWTC-REC1	48-channel wireless receiver, USB powered
UWTC-REC2-(*)	48-channel wireless receiver with analog output
UWTC-REC2-D-(*)	48-channel wireless receiver with analog output and digital display

^{*} Specify analog output signal: "V1" for 0 to 5 Vdc; "V2" for 0 to 10 Vdc, "TC" for Type K thermocouple, or "MA" for 4 to 20 mA.

To Order	
	MODEL NO.
RANGE (RESOLUTION)	G 1/4 Male Thread
GAUGE PRESSURE	
0 to 25.00 mbar (hPa)	DPGM409-025HG
0 to 70.00 mbar (hPa)	DPGM409-070HG
0 to 170.0 mbar (hPa)	DPGM409-170HG
0 to 350.0 mbar (hPa)	DPGM409-350HG
0 to 1.000 bar	DPGM409-001BG
0 to 2.000 bar	DPGM409-002BG
0 to 3.500 bar	DPGM409-3.5BG
0 to 7.000 bar	DPGM409-007BG
0 to 10.00 bar	DPGM409-010BG
0 to 17.50 bar	DPGM409-17.5BG
0 to 35.00 bar	DPGM409-035BG
0 to 50.00 bar	DPGM409-050BG
0 to 70.00 bar	DPGM409-070BG
0 to 100.0 bar	DPGM409-100BG
0 to 175.0 bar	DPGM409-175BG
0 to 245.0 bar	DPGM409-245BG
0 to 350.0 bar	DPGM409-350BG
ABSOLUTE PRESSURE	
0 to 350.0 mbar (hPa)	DPGM409-350HA
0 to 1.000 bar	DPGM409-001BA
0 to 2.000 bar	DPGM409-002BA
0 to 3.500 bar	DPGM409-3.5BA
0 to 7.000 bar	DPGM409-007BA
0 to 10.00 bar	DPGM409-010BA
0 to 17.50 bar	DPGM409-017BA
0 to 35.00 bar	DPGM409-035BA
0 to 50.00 bar	DPGM409-050BA
0 to 70.00 bar	DPGM409-070BA
	ANGES (ZERO OUTPUT = AMBIENT)
0 to -25.00 mbar (hPa)	DPGM409-025HV
0 to -70.00 mbar (hPa)	DPGM409-070HV
0 to -170.0 mbar (hPa)	DPGM409-170HV
0 to -350.0 mbar (hPa)	DPGM409-350HV
0 to -1.000 bar	DPGM409-001BV
BAROMETRIC RANGES (ABS	
0 to 1100 hPa	DPGM409-1100HB
550 to 1100 hPa	DPGM409-550HB
880 to 1100 hPa	DPGM409-880HB
COMPOUND GAUGE RANGES	
±25.00 mbar (hPa)	DPGM409-025HCG
±70.00 mbar (hPa)	DPGM409-070HCG
±170.0 mbar (hPa)	DPGM409-170HCG
±350.0 mbar (hPa)	DPGM409-350HCG
±1.000 bar	DPGM409-001BCG

Comes complete with operator's manual, set-up and configuration software, charting and databasing software with common drivers, USB cable, 2.7 m (8.9') analog output cable, one 3.6V lithium C cell battery (two with wireless option), and 5-point NIST traceable calibration. To order wireless option add suffix "-W" to model number, for additional cost.

Ordering Examples: DPGM409-070G-W, digital pressure gauge with 70 bar range, G1/4 male fitting and wireless transmitter option, and UWTC-REC1, wireless USB receiver.

DPGM409-025HV digital pressure gauge with 25 mb (hPa) vacuum range, G1/4 male fitting. **DPGM409-007SG** digital pressure gauge with 7 bar, sealed gauge range, G1/4 male fitting.

To order sealed gauge models change suffix "G" to "SG", available on gauge ranges ≥7 bar, no extra charge.

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WITH METRIC FITTINGS AND RANGES 0.08% ACCURACY WITH 316L SS WETTED PARTS AND BODY

Uni-Directional Differential **Pressure Ranges** 0-25 mb to 0-70 bar (0-10 inH₂0 to 0-1000 psi)

> Magnetic stylus (included).

DPGM409 Differential Series



✓ Wet/Wet Differential **Pressure Measurement**

Standard

- ✓ 5-Point NIST Traceable Calibration
- ✓ Easy to Read 25 mm (1") **Backlit LCD Display**
- ✓ High 0.08% Accuracy
- ✓ Hi and Lo Alarms Standard
- ✓ MIN/MAX/AVG Reading
- User Selectable Analog Output 0 to 5 Vdc, 0 to 10 Vdc or 4 to 20 mA
- ✓ Bar Graph on Display
- ✓ Wireless Transmitter **Option Sends Reading** to Remote Location and **Includes Charting and Data Logging Software**

Fast Delivery -Typically Stock to 2-Weeks!

DPGM409-17.5BDWU, shown smaller than actual size.

- CE Certified
- Battery Powered with Long Battery Life
- ✓ NEMA 4X (IP65) **Enclosure**
- Metric Ranges and **Pressure Connections**

OMEGA's DPGM409 digital differential pressure gauge incorporates a rugged 316 SS enclosure designed for washdown and marine applications with a precision 0.08% accuracy pressure transducer and 316L SS wetted parts and body. The result is an extremely durable digital pressure gauge. You get all the durability and stability of the micromachined silicon sensor in a rugged NEMA 4X (IP65) package.

Standard integral

pressure sensor

Note: Because of transmission frequency regulations, wireless models may only be used in the US, Canada and Europe.

SPECIFICATIONS

CE Compliant: Meets EN1326-1: 2006 for industrial locations with analog output cables <3 m (9.8') and supplied ferrite core

Accuracy (Combined Linearity, Hysteresis and Repeatability): ±0.08% BSL

Storage Temperature: -40 to 82°C (-40 to 180°F)

Operating Temperature: -18 to 66°C (0 to 150°F)

Thermal Effects (Over Operating Range): Zero Balance:

Ranges 25 mb to 70 mb: ±1% span **Ranges >70 mb:** ±0.5% span

Span Setting:

Ranges 25 mb to 70 mb: ±1% span Ranges >70 mb: ±0.5% span

Minimum Resistance Between Transducer Body and Any Wire: 100M Ω @ 50 Vdc

Pressure Cycles: 1 million minimum

Long Term Stability (1-yr.):

±0.1% FS typical

Analog Output: User selectable 0 to 5 Vdc, 0 to 10 Vdc or 4 to 20 mA (external 24 Vdc power supply required)

Notes: 1. Bidirectional ranges have a unidirectional analog output equal to their full span; i.e. -15 to +15 psi = 0 to 10 Vdc. 2. Analog output is independently scalable Set jumper to Select Current or Voltage: Software selection of 0 to 5 Vdc, 0 to 10 Vdc, or 4 to 20 mA

Analog Output Cable: 2.7 m (9') with ferrite core (included)

Analog Output Accuracy:

0.08% typical (0.15% maximum in RF field @ 10V/m)

Line/Static Pressure:

500 psi maximum applied to both sides simultaneously

Proof Pressure (differential):

25 mb: = 10 times range **70 mb:** = 6 times range

170 mb to 50 Bar: = 4 times range **70 Bar Range:** = 3 times range

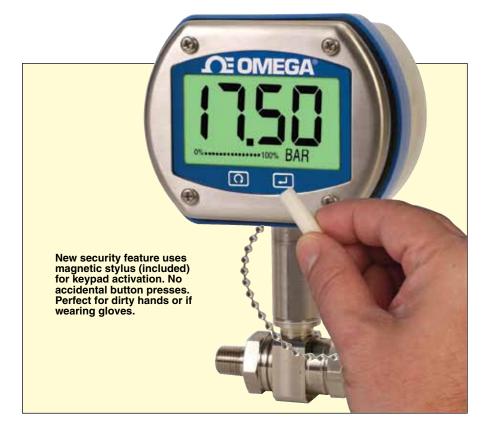
Hi-Side Containment Pressure (Differential):

25 to 350 mb: To 1000 psi 1 to 70 bar: To 3000 psi

Display: 4-digit LCD with user selectable backlighting, (9999 count)

Sample/Display Range: User selectable from 0.38 to 30 seconds (preset to 1/second)

25 mm (1") character height



Computer Interface: USB connection for set-up, cable included

Power: One 3.6V lithium 8.4 Ah capacity (C cell) included (two included with wireless option) (replacement battery model no. BATT-C-3.6V)

Battery Life (Typical): Up to 4-years **Enclosure Material: 316 Stainless** Steel and ABS center gasket Enclosure Finish: Electropolished

Enclosure Environmental Rating: Weatherproof, NEMA 4X (IP65)

Sensor Wetted Parts: 316L stainless steel

Pressure Connection: G 1/4 male

Dimensions:

Display: 115 D x 89 W x 74 mm H (4.5 x 3.5 x 2.9")

Sensor: 72 to 89 mm L (2.8 to 3.5") below display, 80 mm (3.1") wide"

Weight: 1 kg (2.2 lb) typical depending upon configuration

Front Panel Functions

Backlight: Manually turns backlight on/off

Min/Max: Recalls min/max values Zero/Clear: Zeros display or clears

min/max

Software Settings (via USB)

(USB connection is for set-up only) **Units:** psi, inHg, inH₂O, bar, mbar Lock: Allows the lock-out of front panel functions

Alarms: User selectable "High" and "Low" alarm limits (open collector) Backlight: On/Off, 10 seconds, 30 seconds, 1 minute, 5 minute

Wireless Transmitter (Optional): Channel number, transmission rate,

alarms, sensor offset, chart recording, data logging

Calibrate: Zero and Span Overrange Indication: "_

Wireless Option Specifications

Transmit Sample Rate: User programmable from 1 sample/2 min to

1 sămple/2 sec

Radio Frequency (RF) Transceiver Carrier: ISM 2.4 GHz

RF Output: 10 dBm (10 mW) Range of RF Link: Up to 120 m (400') outdoors (line of sight); Up to 40 m

(130') indoors/urban

Included Software: Requires Windows®7 (32 bit); XP, Vista

Data Transmission to Host: Pressure reading, ambient temperature reading, RF transmit strength and battery level

ftp://ftp.omega.com/public/DASGroup/products/dpg409/

The DPG configuration wizard provides a convenient USB interface with your device. Please refer to the manual for details on setting up your device.

To Order				
RANGE/RESOLUTION (bar)	MODEL No. G ¼ MALE TH'd	DESCRIPTION		
WET/WET UNI-DIRECTIONAL DI	FFERENTIAL PRESSURE MODELS			
0 to 25.00 mbar	DPGM409-025HDWU	25 mbar w/w uni-directional pressure		
0 to 70.00 mbar	DPGM409-070HDWU	70 mbar w/w uni-directional pressure		
0 to 170.0 mbar	DPGM409-170HDWU	170 mbar w/w uni-directional pressure		
0 to 350.0 mbar	DPGM409-350HDWU	350 mbar w/w uni-directional pressure		
0 to 1.000 bar	DPGM409-001BDWU	1 bar w/w uni-directional pressure		
0 to 2.000	DPGM409-002BDWU	2 bar w/w uni-directional pressure		
0 to 3.500	DPGM409-3.5BDWU	3.5 bar w/w uni-directional pressure		
0 to 7.000	DPGM409-007BDWU	7 bar w/w uni-directional pressure		
0 to 10.00	DPGM409-010BDWU	10 bar w/w uni-directional pressure		
0 to 17.50	DPGM409-17.5BDWU	17.5 bar w/w uni-directional pressure		
0 to 35.00	DPGM409-035BDWU	35 bar w/w uni-directional pressure		
0 to 50.00	DPGM409-050BDWU	50 bar w/w uni-directional pressure		
0 to 70.00	DPGM409-070BDWU	70 bar w/w uni-directional pressure		
WET/WET UNI-DIRECTIONAL DII	FFERENTIAL PRESSURE MODELS - WI	TH WIRELESS TRANSMITTER OPTION		
0 to 25.00 mbar	DPGM409-025HDWU-W	25 mbar w/w uni-directional wireless		
0 to 70.00 mbar	DPGM409-070HDWU-W	70 mbar w/w uni-directional wireless		
0 to 170.0 mbar	DPGM409-170HDWU-W	170 mbar w/w uni-directional wireless		
0 to 350.0 mbar	DPGM409-350HDWU-W	350 mbar w/w uni-directional wireless		
0 to 1.000 bar	DPGM409-001BDWU-W	1 bar w/w uni-directional wireless		
0 to 2.000	DPGM409-002BDWU-W	2 bar w/w uni-directional wireless		
0 to 3.500	DPGM409-3.5BDWU-W	3.5 bar w/w uni-directional wireless		
0 to 7.000	DPGM409-007BDWU-W	7 bar w/w uni-directional wireless		
0 to 10.00	DPGM409-010BDWU-W	10 bar w/w uni-directional wireless		
0 to 17.50	DPGM409-17.5BDWU-W	17.5 bar w/w uni-directional wireless		
0 to 35.00	DPGM409-035BDWU-W	35 bar w/w uni-directional wireless		
0 to 50.00	DPGM409-050BDWU-W	50 bar w/w uni-directional wireless		
0 to 70.00	DPGM409-070BDWU-W	70 bar w/w uni-directional wireless		

WIRELESS RECEIVERS (FOR USE WITH WIRELESS OPTION)		
MODEL NO. DESCRIPTION		
UWTC-REC1	WTC-REC1 48-channel wireless receiver, USB powered	
UWTC-REC2-(*) 48-channel wireless receiver with analog output		
UWTC-REC2-D-(*) 48-channel wireless receiver with analog output and display		

Comes complete with operator's manual, battery (2 with wireless option), set-up and configuration software, USB cable (with wireless option) charting and databasing software with common drivers, USB cable, 2.7 m (8.9') analog output cable with ferrite core and 5-point NIST traceable calibration certificate.

Ordering Examples: DPGM409-170HDWU, 0 to 170 mbar uni-directional differential pressure gauge with analog output. **DPGM409-007BDWU-W**, 0 to 7 bar uni-directional differential pressure gauge with analog output and wireless transmitter.

^{*} Specify analog output signal "V1" for 0 to 5 Vdc; "V2" for 0 to 10 Vdc; "TC" for Type K thermocouple; "MA" for 4 to 20 mA. To order wireless option add suffix "-W" to model number for additional cost.

SANITARY/CLEAN-IN-PLACE APPLICATIONS HIGH 0.08% ACCURACY

Gauge, Absolute, Sealed Gauge Compound Gauge, Vacuum and Barometric Models 0-25 mb to 0-41 bar

DPGM409S Metric Sanitary Series





- ✓ High 0.08%

 Accuracy Typical
- ✓ Hi and Lo Alarms Standard
- MIN/MAX/AVG Reading
- User Selectable Analog Output 0 to 5 Vdc, 0 to 10 Vdc or 4 to 20 mA
- Data Logging and Charting Software Included
- Wireless Transmitter Option Sends Reading to Remote Location
- ✓ Tested to Industrial CE Standards
- ✓ Battery Powered with Long Battery Life
- ✓ 5-Point NIST Traceable Calibration Certificate



OMEGA's DPGM409S Sanitary/ CIP digital pressure gauges with metric ranges incorporates a rugged 316 SS enclosure designed for washdown and marine applications with a precision 0.08% accuracy pressure transducer with 316L SS wetted parts and body. The result is an extremely durable digital pressure gauge designed to survive harsh industrial environments. The large 25 mm (1") display is easy to read at a distance up to 11 m (36'). Models are available in gauge, sealed gauge, compound gauge, absolute, vacuum and barometric pressure ranges. Standard features include a highly stable silicon sensor, selectable MIN/MAX and AVG readings, Hi and LO alarms and an externally powered user selectable analog output.

An optional wireless transmitter feature with software allows the signal to be transmitted to a remote location such as a PC for charting and data logging. Power is from an internal long life battery (included) or an externally supplied dc voltage source. Each unit is supplied with configuration software that allows the user connect to a pc via a standard USB connection (cable included) and select a variety of user configurable features including update rate, dampening, units, backlight and auto off. The analog output can also be independently scaled from the display.

Note: Because of transmission frequency regulations, wireless models may only be used in the US, Canada and Europe.

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

GAUGES C

G

ftp://ftp.omega.com/public/DASGroup/products/dpg409/

The DPG configuration wizard provides a convenient USB interface with your device.

Please refer to the manual for details on setting up your device.

SPECIFICATIONS

RoHS Compliant

CE Compliant: Meets industrial emissions and immunity standard IEC61326 for industrial locations

Accuracy: ±0.08% Best Straight Line Typ. (Linearity, Hysteresis and Repeatability combined)

Calibration: 5-Pt NIST traceable calibration with zero and span values, calibrated in horizontal direction (compound gauge models calibrated in positive direction only). calibrated in horizontal direction

Zero Balance: ±0.5% FS typical ±1% maximum (for ranges ≤170 mb ±1% Typical ±2% maximum)

Span Setting: ±0.5% FS typical ±1% maximum (for ranges ≤170 mb ±1% Typical ±2% maximum)

Storage/Operating Temperature Range: -15 to 115°C (-5 to 240°F)

Compensated Temperature Range: Ranges ≤350 mb: 4.4 to 60°C

(40 to 140°F)

Ranges >350 mb: -4 to 85°C (25 to 150°F)

Zero and Span shift over Compensated Range:

Ranges ≤170 mb: Zero: 1.00%

Span: 0.70%

Range = 350 mb: Zero: 0.80%

Span: 0.50%

Ranges > 350 mb: Zero: 0.50%

Span: 0.50%

550 & 880HB Barometric Range:

Zero: 0.90% **Span:** 0.50%

Minimum Isolation Between Case and Output Terminations: 100M Ω @ 50 Vdc

Analog Output: User selectable 0 to 5 Vdc, 0 to 10 Vdc of 4 to 20 mA (external 24 Vdc power required)

Note: Compound gage ranges have a unidirectional analog output equal to their full span; i.e. -1 to +1 bar = 0 to 10 Vdc.

Set Jumper to Select Current or Voltage: Software selection of 0 to 5 Vdc, 0 to 10 Vdc, or 4 to 20 mA

Analog Output Cable: 2.7 m (8.9') with ferrite core included

Analog Output Accuracy: 0.08% typical (0.15% max in RF field @ 10V/m)

Pressure Cycles: 250,000, minimum Long Term Stability (1-Year): ±0.1%

FS Typical

Fill Fluid: NEOBEE M5 Food Grade

Approved to 3A Sanitary Specification 74-05

Environmental Protection:

NEMA 4X (IP65) depending upon electrical termination

Pressure Rating: 1½" and 2" Tri-Grip™ fitting (compatible the Tri-Clamp®): 40 bar using suitable clamp

Over Pressure: 4 x rated pressure to maximum rated flange pressure

Secondary Containment: 6 x rated pressure to a maximum of 138 bar (not in clamp)

Display: 4-digit LCD with user selectable backlighting, (9999 count) 25 mm (1") character height

Computer Interface: UBS connection for set-up, cable included

Sample/Display Range: User selectable from 0.35 to 30 seconds (preset to 1/second)

Power: One 3.6V lithium 8.4 Ah capacity (C cell) Included (two included with wireless option) (replacement battery model no. BATT-C-3.6V

Battery Life (Typical): Up to 4-years Enclosure Material: 316 stainless Steel and ABS center gasket

Enclosure Finish: Electropolished Enclosure Environmental Rating: Weatherproof, NEMA 4X (IP65)

Connection Location: Lower (head rotates to position display)

Front Panel Functions

Backlight: Manually turns backlight on/off

Min/Max: Recalls min/max values Zero/Clear: Zeros display or clears min/max

Software Settings (via USB)

Update Rate: 4 options; 10, 5, 2, 1 times per second

Units: psi, inHg, inH₂O, bar, mbar **Lock:** Allows the lock-out of front panel functions

Alarms: User selectable High and Low alarm limits (open collector)

Backlight: On/Off, 10 sec, 30 sec, 1 min, 5 min

Wireless Transmitter (Optional): channel number, Transmission rate, alarms, sensor offset, chart recording, data logging

Calibrate: Zero and Span
Overrange Indication: "____

Wireless Option Specifications

Transmit Sample Rate: User

programmable from 1 sample/2 minute to 1 sample/2 seconds

Radio Frequency (RF) Transceiver

Carrier: ISM 2.4 GHz RF Output: 10 dBm (10 mW)

Range of RF Link:

Outdoors (Line of Sight):

Up to 120 m (400')

Indoors/Urban: Up to 40 m (130')

Included Software: Requires Windows® 7 (32 bit); XP, Vista

Data Transmission to Host: Pressure reading, ambient temperature reading, RF transmit strength and battery level

Dimensions:

Display: 115 D x 89 W x 74 mm H

(4.5 x 3.5 x 2.9")

Sensor: 72 to 89 mm L (2.8 to 3.5")

below display

Weight: 900 g (2 lb) typical depending

upon configuration





fitting works with commercially available sanitary pipes and fittings. Shown smaller than actual size.

METRIC	APPROXIMATE	MODEL NO.
GAUGE		
0 to 25 mbar	0 to 10 inH ₂ O	DPGM409S[*]-025HG
0 to 70 mbar	0 to 1	DPGM409S[*]-070HG
0 to 170 mbar	0 to 2.5	DPGM409S[*]-170HG
0 to 350 mbar	0 to 5	DPGM409S[*]-350HG
0 to 1	0 to 15	DPGM409S[*]-001BG
0 to 2	0 to 30	DPGM409S[*]-002BG
0 to 3.5	0 to 50	DPGM409S[*]-3.5BG
0 to 7	0 to 100	DPGM409S[*]-007BG
0 to 10	0 to 150	DPGM409S[*]-010BG
0 to 17.5	0 to 250	DPGM409S[*]-017BG
0 to 35	0 to 500	DPGM409S[*]-035BG
0 to 40	0 to 600	DPGM409S[*]-040BG
ABSOLUTE		
0 to 350 mbar	0 to 5	DPGM409S[*]-350HA
0 to 1	0 to 15	DPGM409S[*]-001BA
0 to 2	0 to 30	DPGM409S[*]-002BA
0 to 3.5	0 to 50	DPGM409S[*]-3.5BA
0 to 7	0 to 100	DPGM409S[*]-007BA
0 to 10	0 to 150	DPGM409S[*]-010BA
0 to 17.5	0 to 250	DPGM409S[*]-017BA
0 to 35	0 to 500	DPGM409S[*]-035BA
0 to 40	0 to 600	DPGM409S[*]-040BA
VACUUM (NEGATIVE (GAUGE)	
0 to -25 mbar	0 to -10 inH ₂ O	DPGM409S[*]-025HV
0 to -70 mbar	0 to -1	DPGM409S[*]-070HV
0 to -170 mbar	0 to -2.5	DPGM409S[*]-170HV
0 to -350 mbar	0 to -5	DPGM409S[*]-350HV
0 to -1 bar	0 to -15	DPGM409S[*]-001BV
COMPOUND GAUGE		
± 25 mbar	± 10 inH ₂ O	DPGM409S[*]-025HCG
± 70 mbar	± 1	DPGM409S[*]-070HCG
± 170 mbar	± 2.5	DPGM409S[*]-170HCG
± 350 mbar	± 5	DPGM409S[*]-350HCG
± 1 bar	± 15	DPGM409S[*]-001BCG
BAROMETRIC		
0 to 1100 hPa	0 to 32.00 inHg	DPGM409S[*]-1100HB
550 to 1100 hPa	16 to 32.00 inHg	DPGM409S[*]-550HB
880 to 1100 hPa	26 to 32.00 inHg	DPGM409S[*]-880HB
	TH. ((221))	

[*] Insert "15" for 1.5" Tri-Grip™ or "20" for 2" Tri-Grip™ Sanitary Fitting, no extra charge.

WIRELESS RECEIVERS (FOR WIRELESS OPTION "-W")		
MODEL NO. DESCRIPTION		
UWTC-REC1 48-channel wireless receiver, USB powered		
UWTC-REC2-(**) 48-channel wireless receiver with analog output		
UWTC-REC2-D-(**) 48-channel wireless receiver with analog output and display		

Comes complete with operator's manual, set-up and configuration software, magnetic stylus, USB cable, 2.7 m (9') analog output cable with ferrite core, one 3.6V lithium C cell battery (two with wireless option) and 5-pt NIST traceable calibration. Wireless option also includes charting and databasing software.

[**] Specify analog output signal: "V1" for 0 to 5 Vdc; "V2" for 0 to 10 Vdc; "TC" for Type K thermocouple, or "MA" for 4 to 20 mA, no extra charge. For wireless option add "-W" suffix for additional cost (includes data logging and graphing software).

Ordering Examples: DPGM409S15-007BG, digital pressure gauge with 1.5" sanitary fitting, 7 bar gauge range.

DPG409S20-070HCG, digital pressure gauge with 2" sanitary fitting, \pm 70 mb compound gauge range.

PRECISION ABSOLUTE MANOMETER

HHP360



- ✓ NIST Traceable Calibration Certificate Included
- ✓ Very High 0.015% Accuracy
- Absolute Pressure
- **∠** Barometric Pressure (Corrected to Sea Level)
- ✓ Altitude in Meters or Feet (Corrected to Sea Level)
- Altitude Can be User Set Based Upon Map or Trig Marker or for **Local Conditions**
- ✓ 7 Pressure Units
- Easy to Read **Backlight Display**

Omega's HHP360 is a very high accuracy, handheld barometer/ absolute pressure meter suitable for the most demanding field or laboratory conditions. It can measure absolute pressure, barometric pressure (corrected to sea level) or altitude based upon sea level or corrected for a map or trig marker. Pressure can be displayed in 1 of 7 different engineering units. Altitude can be displayed in either meters or feet.

The HHP360 Series also has a leak test mode to determine the rate of leakage in a pneumatic system, and data logging, either automatic (taking readings every 5 seconds for 20 minutes) or manual for up to 240 readings.

SPECIFICATIONS

HHP360-B.

Measuring Range (Absolute Pressure):

HHP360-A: 0 to 17.403 psia (0 to 900 mmHg, 0 to 35.433 inHg) HHP360-B: 0 to 38.674 psia (0 to 2000 mmHg, 0 to 78.740 inHg)

Accuracy: (Includes thermal errors from -5 to 50°C (23 to 122°F)

HHP360-A: ±0.02%FS HHP360-B: ±0.015% FS from 0 to 19.337 psia (0 to 1000 mmHgA) ±0.025% FS from 19.338 to 38.674 psia (1000 to 2000 mmHgA)

Operating Temperature: -5 to 50°C (23 to 122°F)

Storage Temperature: -40 to 60°C (-40 to 140°F)

Safe Overpressure: 77 psia

(4000 mmHg)

Display/Resolution: 5 significant digits LCD (0.25" high) 2 line x 16 alphanumeric characters with adjustable contrast

Operating Modes: Local pressure, sea level pressure from user set height, altitude from user set datum

Backlight: Green, changes to red

HHP360

for overpressure

OMEGA

Units of Measure: mmHg, inHg, PSI, mbar, bar, kPa, Torr, feet, meters Process Features: Tare, Min/Max capture, leak test, damping rates, auto shutoff

Process Media: Fluids and gases compatible with 316 SS

Pressure Fitting: 1/8 NPT female, 316 SS Power: 4 "AA" batteries (included) Battery Life: >100 hr continuous use

Case: Polycarbonate, sealed keypad Dimensions: 165 H x 91 W x 57 mm D

(6.5 x 3.6 x 2.25") Weight: 400 g (14 oz)

To Order MODEL NO. **DESCRIPTION** HHP360-A Precision absolute manometer, 0 to 900 mmHg (0 to 17 psia) **HHP360-B** Precision absolute manometer, 0 to 2000 mmHg (0 to 38 psia)

Comes complete with operator's manual, NIST traceable calibration certificate, 4 "AA" batteries, and protective rubber boot.

Ordering Example: HHP360-B. precision handheld manometer. 0 to 2000 mmHg range.

PRESSURE INSTRUMENTS

Rometec srl - www.ro OMEGA

HHP400 Series Smart Manometer

Omega Tethered Sensor (optional accessory)



Omega Tethered Sensors

- Expand the capabilities of the HHP400 by adding an OTS to measure a second pressure.
- Choose any available pressure or temperature sensor type and range and connect your accessory OTS using the included 1 meter cable.
- This is an interchangeable sensor giving extra flexibilty to your measurement needs.

The HHP400 is a portable pressure instrument that offers flexible features to help meet the demand of your everyday pressure measurement needs. This smart manometer can document up to 240 readings in over 30 engineering units. It also hasseveral features including MIN/MAX capture, adjustable damping rates, and auto shut-off. The HHP400 features NIST traceable accuracy up to \pm 0.025 % of full-scale.

Expand the capabilities of the HHP400 by adding a tethered sensor to measure a second pressure. Our tethered sensors are interchangeable, giving extra flexibility to your measurement needs. Choose from any available pressure sensor type and range and connect your accessory tethered sensor via a locking tether cable.

Our HHP460 barometric units have altitude displayed in feet or meters, indicated air speed in MPH, KNOTS, and KM/H, and has corrections for altitude and sea level.

Features on HHP452

HPP400Suite application for configuration, calibration, and data logging

Backlight with 4 levels: Off, Low, Medium, High

Battery life display (0 % to 100%)

USB communication

Min/Max pressure capture

Protective red boot

Ships with calibration certificate traceable to NIST

HHP452 can use a second sensor with the MTS Series

of Tethered Modules(Pressure & Temperature)

Additional Features for HHP460

- Altitude displayed in feet or meters
- Indicated Air Speed in MPH, KNOTS, KM/H
- Corrections for Altitude and Sea Level

Applications

- Pressure Transmitter Calibration
- Leak testing for low pressure gas systems
- Pressure drop monitoring across filters
- Monitoring vacuum on condensers and pumps
- Pressure relief valve testing
- Hold function to snapshot pressure reading
- HHP460 units only: Testing and calibration of Altimeter and Air Speed Instruments

HHP400 Suite

Our HHP400 Suite application is included with the HHP400 so you can configure HHP400 and OTS to streamline your daily measurement tasks.

Configure the Smart Manometer and sensors

Configure and download data logs, select measurement units and configure user defined units, turn on and off device functions, and calibrate your device using your local measurement standards.



	HHP452 Units	HHP460 Units			
Pressure Accuracy	•± 0.020% Full Scale + 0.005% of Reading				
Pressure Ranges for					
dry, non-corrosive	•0 to 15, 30, 100 psi Absolute				
gas media	•-1 to 1, -5 to 5, -14.5 to 15, 30, 50, 100 psi Differential	•Additional ranges available with OTS			
(Non-isolated)	•-1 to 1, -5 to 5, -14.5 to 15, 30, 50, 100 psi Compound				
	Additional ranges available with OTS				
Pressure Ranges for					
gasses and liquid		•0 to 30, 100 psi Absolute			
media compatible	•0 to 15, 30, 100, 1000 psi Absolute	•Additional ranges available with OTS			
with 316SS	•-1 to 1, -5 to 5, -14.5 to 15, 30, 50, 100, 300, 500 psi Differential				
(Isolated)	•-14.5 to 15, 30, 50, 100, 300, 500, 1000, 3000 psi Compound				
	•Additional ranges available with OTS				
Measurement Units					
D: 1 D 1 :	available with				
Display Resolution	•Up to 6 digits depending of	•			
Dimensions with	•Length 9.8 in (248.9 mm) fro				
boot	■Width 5.2 in (132.1 mm) at widest point with boot ■Thickness 2.3 in (58.4 mm)				
Connections		, ,			
Connections	•1/8" Female NPT 316SS USB				
•Omega Tethered Sensor (OTS) Port					
	•USB				
Power	•4 AA batteries				
OTS RTD					
Specifications	Temperature Pr	· · · · · · · · · · · · · · · · · · ·			
	●IEC 60751 PT100 class A				
	•Tolerance = ± (0.15 + 0.002 t) °C				
	●Probe measurement ra	ange: -50 °C to 250 °C			
Temperature	■Storage: –20 °C to 70) °C (–4 °F to 158 °F)			
Specifications	•Operating: −10 °C to 50 °C (14 °F to 122 °F)				
Altitude		■-2000.0 ft to 36,000 ft			
		•-609.6 m to 10,972.80 m			
Indicated Air Const-		,			
Indicated Air Speed		•0 knots to 660 knots			
		•0 to 760 mph			
— Rometec s:	rl - www.rometec.it - info@rometec.it - Rometo	ec srl - www.rometec.it - info@rometec.it —			

0.01

O to 20 inH₂O RANGE

HHP680



Max and Reading Hold

✓ Portable and Easy-to-Use

Auto-Zero Power

Switchable High Resolution: 0.01/0.1" Water Column

✓ Comes with Tubing [60 cm (24")] and 1/4 NPT Fitting

✓ 4 "AAA" Alkaline **Batteries Included**

Soft Carrying Case

The HHP680 is a low-cost, versatile handheld manometer. It comes with tubing, fitting, soft carrying case, and batteries. Typical applications include commercial and automotive HVAC.

SPECIFICATIONS

Display: 3½ digit LCD with a maximum reading of 1999 Range: 0 to 20 inH₂O **Resolution:** 0.01/0.1" Low-Battery Indicator: The "FF" displays Storage Temperature: -20 to 60°C (-4 to 140°F)

Operating Temperature: 0 to 40°C (32 to 104°F)

Operating Relative Humidity: 15 to 90% RH, non-condensing **Accuracy:** ±2% at 23°C (73°F) [±5°C (9°F), <75% RH]

Dimensions: 190 H x 44 W x 40 mm D

 $(7.5 \times 1.7 \times 1.6")$

Weight: Approx. 150 g (5.3 oz)

with batteries

Batteries: 4 "AAA" (included)

Sensor: Solid state

Battery Life: 150 hrs, typical usage; no

Compatible Media: Dry, non-corrosive gases

measurable current when in off position

MANOMETER

60 cm (24") of tubing and 1/8 NPT adaptor included. PRESSURE INSTRUMENTS

HHP680, shown actual size.

To Order *Visit omega.com/hhp680 for Pricing and Details*

DESCRIPTION MODEL NO.

HHP680 Portable manometer with 0 to 20 inH2O range

Comes complete with 60 cm (24") of tubing, fitting, 4 "AAA" alkaline batteries, soft carrying case and operator's manual.

Ordering Example: HHP680, handheld manometer.

DIGITAL MANOMETER FOR CLEAN DRY GASES

HHP8200 Series



- Digital Display of Gauge or Differential Pressure
- User Selectable Engineering Units
- ✓ Min and Max Memory
- RS232 Output with Optional Software
- Auto Power Off and Low Battery Indication
- ✓ Bright Backlit Display
- Connection Hose Tubing Included

The HHP8200 Series are low-cost handheld manometers capable of measuring differential pressure and positive or negative gauge pressure. Five models are available covering ranges from 0-5 to 0-100 psi. All models feature user selectable engineering units, MIN/MAX memory, and a bright backlit display for easy viewing in low light conditions.

SPECIFICATIONS

Accuracy: ±0.3% FS

Resolution: See "To Order" table

Engineering Units (User Selectable): psi, mbar, bar, inH₂O, cmH₂O, mmHg, ozin², kgcm², kPa, ftH₂O, inHg (except HHP4252: psi, mbar, bar,

 inH_2O , mmH_2O)

Storage Temperature: -20 to 60°C

(-4 to 140°F)

Operating Temperature: 0 to 50°C

(32 to 122°F)

Temperature Effects: ±0.2% FS typical

(±1% max)

Proof Pressure: See "To Order" table

Pressure Media: Clean, dry, non-corrosive gases Response Time: 0.5 sec Pressure Connections/

Tubing Size:

Hose barb for 4 mm ID tubing **Battery:** 9V battery (included) **Battery Life:** 30 hours (without backlight)

Dimensions:

182 H x 72 W x 30 mm D (7.16 x 2.83 x 1.18")



HHP8215, shown smaller than actual size.

To Order				
MODEL NO.	RANGE (psi)	RESOLUTION (psi)	PROOF PRESSURE (psi)	
HHP8205	0 to 5	0.003	20	
HHP8215	0 to 15	0.01	30	
HHP8230	0 to 30	0.02	60	
HHP8200	0 to 100	0.1	150	

ACCESSORY

MODEL NO.	DESCRIPTION	
HHF91-SW	Software and RS232 cable with 9 pin sub-D connector	

Comes complete with 9V battery, connection hose, hard carrying case and operator's manual. **Ordering Examples: HHP4252,** 0 to 2 psi manometer.

HHP4230, 0 to 30 psi manometer and HHF91-SW, optional software and RS232 cable.

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DIFFERENTIAL MANONETER USB VERSION AVAILABLE

HHP886 Series



- ✓ Dual Display and Dual **Pressure Inputs**
- Displays Input 1, Input 2 or Differential Pressure
- User Selectable Units, psi, mbar, inH₂O and mmH₂O
- ✓ Protective Rubber Boot Included
- ✓ USB Models with Data **Logging Software**

SPECIFICATIONS

Measurement Range and Resolution:

psi: ±2.0000 mbar: ±150.00 inH₂O: ±60.00 mmH₂O: ±1500.0 Accuracy: ±1.5% FS @ 23 ±5°C, < 75% RH

Operating Temperature: 0 to 50°C (32 to 122°F)

Compatible Media: Clean, dry,

non-corrosive gases

Battery: 4 "AAA" (included) Battery Life: 200 hours

(low battery indicator on display)

Auto Power Off: When enabled by user unit will power off after 15 minutes with no buttons pressed

Transmit Distance: 25 m (82') without magnetic interference

Pressure Ports: Hose barbs for 4 mm ID flexible tubing (included)

Dimensions:

177 H x 83 W x 40 mm D $(7.0 \times 3.3 \times 1.6")$

Weight: 230 g (8.1 oz) (including batteries)



HHP886, tubing included, shown smaller than actual size.

Omega's HHP886 Series manometers feature a dual pressure input (P1 and P2) and a dual display which can be set to simultaneously display P1 and P2 or P1 and the differential pressure (P1 - P2). Pressure is displayed in one of four user selectable units and a record function will store the MAX, MIN, MAX-MIN and AVG pressure for each channel for later viewing. Models are also available with a USB connection for real time data logging to a computer. Software allows the user to display the data in a graphical format or export the data to Excel or text files for further manipulation.

To Order	
MODEL NO.	DESCRIPTION
HHP886	Battery powered dual input manometer
HHP886U	Battery powered dual input manometer with USB output, includes USB cable and software

ACCESSORIES

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MODEL NO.	DESCRIPTION
HH800-ADAPTOR	DC adaptor for USB model only
SC-800	Soft case

Comes complete with two 1.5 m (5') lengths of tubing with 1/8 MNPT adaptors, 4 "AAA" batteries, protective rubber boot and operator's manual.

Ordering Examples: HHP886, handheld manometer with tubing and fittings.

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SINGLE OR DIFFERENTIAL INPUT ±800 inH₂0 (±29 psi)

HHP91

✓ 8 User-Selectable Units: psi, mbar, kg/cm², mmHg, inHg, mH₂O, inH₂O, atm

- ✓ Measures Up to ±2000 mbar (±29 psi)
- Auto Shut-Off Function **Prolongs Battery Life**
- Built-In Tilt Stand
- Reading Hold
- Stores Minimum and **Maximum Readings with Pushbutton Recall**
- ✓ Compatible with Air or Non-Corrosive and **Non-Ionized Gases** and Liquids

The HHP91 is a precision manometer for automotive, HVAC, laboratory, and general industrial applications. It has a built-in sensor with dual inputs for gage or differential pressure measurements and is compatible with air or noncorrosive and non-ionized gases and liquids. Eight user-selectable pressure units facilitate use of the HHP91 with all measuring systems. The display is easy-to-read, with 15 mm (0.6") high digits.

SPECIFICATIONS

Units: psi, mbar, kg/cm2, mmHg, inHg,

mH₂O, inH₂O, atm

Functions: Auto-off (after approx. 20 min), reading hold, min and max Accuracy: ±2% FS @23 ±5°C, includes

linearity, repeatability and hysteresis

Operating Temperature: 0 to 50°C (32 to 122°F) **Operating Humidity:** <80% RH (non-condensing)

Power: 9V alkaline battery (included) Sampling Time: Approx. 0.8 s

Pressure Ports: Quick-disconnect plug

for 3 to 4 mm ID tubing

Weight: 345 a (0.8 lb)

Dimensions: 185 H x 78 W x 38 mm D (7.2 x 3.0 x 1.4")



UNIT	MAX RANGE	RESOLUTION	DISPLAY
mbar	±2000	1	m bar
psi	±29	0.02	Psi
kg/cm²	±2.040	0.001	Kg/cm ²
mmHg	±1500	1	mm/Hg
inHg	±59.05	0.05	in/Hg
mH ₂ O	±20.40	0.01	m H₂O
inH ₂ O	±802	0.5	inch H₂O
atm	±1.974	0.001	ATP

To Order Visit omega.com/hhp91 for Pricing and Details		
MODEL NO.	DESCRIPTION	
HHP91	Wet/dry manometer	

Comes complete with 2 quick-disconnect tube fittings, 9V battery, hard carrying case and operator's manual.

Ordering Example: HHP91, manometer.

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(I/P) CONVERTER

Control Air 3-15 to 3-120 psi

IP210A and IP210 Series





- ✓ Loop Powered
- ✓ Ideal for Pneumatic **Control Systems**
- ✓ IP65 Sealed Case / NEMA 4 Type Enclosure
- Zero and Span Adjustments for Field Calibration
- ✓ Rugged Zinc-Die Cast Housing

A "current to pressure" converter (I/P) converts an analog signal (4 to 20 mA) to a proportional linear pneumatic output (3 to 15 psig). Its purpose is to translate the analog output from a control system into a precise, repeatable pressure value to control pneumatic actuators/ operators, pneumatic valves, dampers, vanes, etc. Both IP210 and IP210A are loop-powered instruments, which eliminates the need for an external power supply (except for IP210-X120).

Principle of Operation

OMEGA's IP210 and IP210A convert an analog signal (4 to 20 mA) to a proportional linear pneumatic output (3 to 15 psig). Its uncomplicated design and proven electromagnetic force balance deliver consistently high

Both Series provide a reliable, repeatable, accurate means of converting an electrical signal into pneumatic pressure. Its force balance principle is a coil suspended in a magnetic field on a flexible mount. At the lower end of the coil is a flapper valve that operates against a precision ground nozzle to create a backpressure on the servo diaphragm of a booster relay.

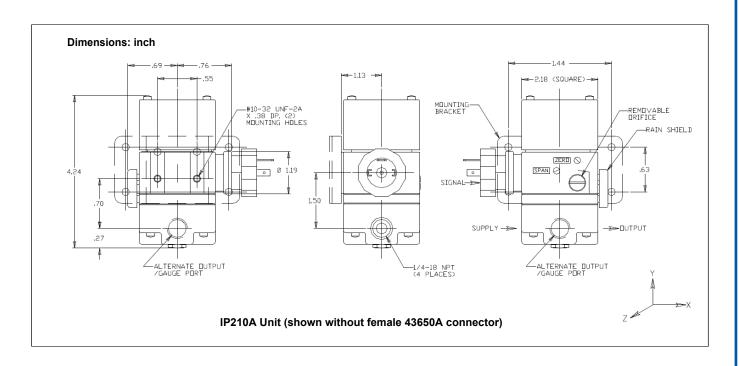
The input current flows in the coil and produces a force between the coil and the flapper valve, which controls the servo pressure and the output pressure.

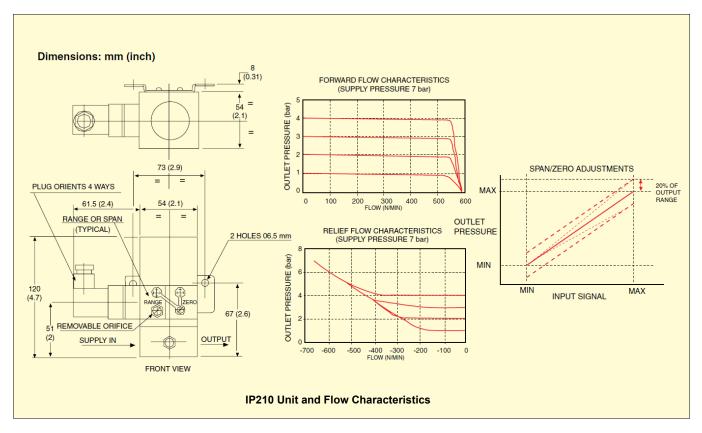
accurate control.

IP210-X15

Zero adjustment of the unit is made by turning a screw that regulates the distance between the flapper valve and the air nozzle. Span adjustment is made by varying a potentiometer, which shunts input current past the coil. An integral volume flow booster provides adequate flow capacity, resulting in fast response time and

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IP210A and IP210 Series Specifications:					
SERIES	IP210A Seri	es	IP210 Series		
MODEL NO.	IP210A-X15 IP210A-X30	IP210A-X60 IP210A-X120	IP210-X15, IP210-X30, IP210-X60, IP210-X120		
Accuracy	±1.5% FS	±2.3% FS	±0.5% FS		
Linearity	<1.0% of span	<2.0% of span	-		
Repeatability	<0.5% of span	<0.5% of span	-		
Hysteresis	<1.0% of span	<1.0% of span	-		
Supply Sensitivity	±0.15% span per 1.5 psig	±0.004% span per 1.0 psig	0.025% span per % supply pressure change		
Max Supply Pressure	100 psi	150 psi	80 psig (for IP210-X120: 135 psi)		
Min Supply Pressure	3 psi above maximum output pressure	5 psi above maximum output pressure	10 psi above maximum output pressure		
Air Consumption	0.1 SCFM	0.07 SCFM	0.03 SCFM		
Operating Temp	-29 to 60 °C (-20 to 140 °F)	-20 to 70°C (5 to 160°F)		
Pressure Port	1/4" F	NPT	1/4" FNPT		
Electrical Connection	DIN 43650 with scre	w terminals included	DIN 43650 with screw terminals included		
Flow Rate	12 SCFM for 2-60 psi ; 24 SCFM > 60 psi		10 scfm ≤60 psi; 0.06 <60 psi		
Input Resistance	<300 Ω		<300 Ω		
Media	Oil-free, Clean, Dry	Air Filtered to 25 µm	Oil-free, clean, Dry Air Filtered to 25 µm		
Housing	NEMA 4 Type, Epoxy-painted Zinc Die Castings		IP65 rated, Epoxy-Painted Zinc Die Castings		

Construction:

Nitrile Diaphragms, nozzle and supply valve, integral surface mounting bracket included

Failure Mode

Upon electrical failure, the signal pressure falls to bleed pressure

To Order		
MODEL NO.	INPUT RANGE	OUTPUT RANGE
IP210-X15	4 to 20 mA	3 to 15 psig
IP210-X30	4 to 20 mA	3 to 30 psig
IP210-X60	4 to 20 mA	3 to 60 psig
IP210-X120	4 to 20 mA*	3 to 120 psig
IP210A-X15	4 to 20 mA	3 to 15 psig
IP210A-X30	4 to 20 mA	6 to 30 psig
IP210A-X60	4 to 20 mA	2 to 60 psig
IP210A-X120	4 to 20 mA	3 to 120 psig

^{* 3-}wire system. External 24 Vdc power supply required.

Comes complete with operator's manual.

Ordering Examples: IP210-X15, I/P converter, takes a 4 to 20 mA control signal and converts it into 3 to 15 psig control air.

IP210 A-X60, I/P converter, takes a 4 to 20 mA control signal and converts it into 2 to 60 psig control air.

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ELECTROPNEUMATIC TRANSDUCERS I/P AND E/P MODELS

Current to Pressure (I/P) Voltage to Pressure (E/P)

IP211, EP211



✓ Low Cost

✓ Built-In Volume Booster

Small Size

✓ Field Reversible

✓ Low Air Consumption

✓ Mounts at Any Angle

Convenient External Span and Zero Adjustment (Except for Explosion-Proof Models)

Light Weight

Wide Supply Pressure Range

Low Supply Pressure Sensitivity

The IP211/EP211 Series transducers are electropneumatic devices that reduce a supply pressure to a regulated output pressure directly proportional to an electrical input signal. The 211 Series accepts a wide range of supply pressures, ranging from a minimum of 3 psig (0.2 bar) above the maximum output to 100 psig (6.9 bar). An integral pneumatic volume booster is included in the design to provide high flow capacity (up to 12 SCFM). Model selection includes general purpose, FM Intrinsically Safe, and CSA Intrinsically Safe.

Mounting

These transducers can be pipe, panel, or bracket

mounted in any position. Positions other than vertical will require recalibration of the zero adjustment. For maximum output stability, the transducers should be mounted in a vibration- free location or where vibration is isolated in the x and z axes.

Field Reversible

All transducers are calibrated at the factory for direct-acting operation but may be used in the reverse- acting mode by reversing the polarity of the signal leads and recalibrating. When recalibrated

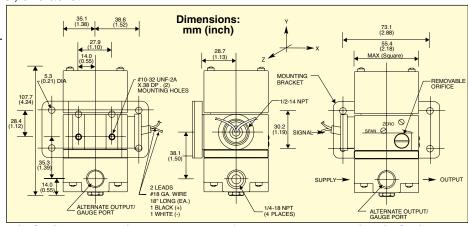
IP211-X15 shown actual size (mounting bracket included).

Easily accessible zero and span adjustments

and or

for reverse-acting applications, the transducers provide a minimum of their full rated output pressure (i.e.,15, 27, or 30 psig) upon input signal failure.

† Refer to the To Order Chart on page L-6 for specific FM or CSA approved models.



GENERAL PURPOSE ELECTROPNEUMATIC TRANSDUCERS

SPECIFICATIONS

Supply Pressure Range:

3 psig (0.2 bar) above maximum output to 120 psig

15 psig (1 bar) units: 18 to 100 psig

(1.3 to 7 bar)

27 psig (1.9 bar) units: 30 to 100 psig (1.9 to 7 bar)

30 psig (2.1 bar) units: 33 to 100 psig

(2.3 to 7 bar) 60 psig (4.1 bar) units: 65 to 100 psig

(4.5 to 7 bar)

120 psig (8.3 bar) units: 125 to 150 psig

(8.6 to 10.4 bar)

Supply Pressure Sensitivity: ±0.15 of span 1.5 psig (0.1 bar)

Linearity (Terminal Based): <1.0% of span

Repeatability: <0.5% of span Hysteresis: <1.0% of span

Minimum Flow Rate @ 100 psig

(7 bar): 12 SCFM

Exhaust Capacity @ 5 psig (0.4 bar) Above Setpoint: 2 SCFM

Air Consumption (Max) at Midrange: 0.1 SCFM

Port Size (Pneumatic/Electric):

14 NPT and 12 NPT

Dimensions: 54 x 54 x 101 mm

(21/4 x 21/4 x 4")

Maximum Flow: 24 SCFM (677 SLPM) Agency Approvals: Factory Mutual

Research Approved as Intrinsically Safe for Class I, II, III, Division 1, Groups A, B, C, D, E, G when installed in accordance with interconnection diagram and with the proper energy limiting barriers. Canadian Standards Association certified as intrinsically safe when connected through certified diode safty barriers in accordance with installation instruction.

Note: Intrinsically safe and non-incendive ratings are not affected by recalibrating for split ranges or reverse-acting applications.



IP211-X15 shown smaller than actual size.

	OUTPUT RANGE		IMPEDANCE		
MODEL NO.	INPUT RANGE	psig	bar	(NOMINAL)	
GENERAL PURPOSE I/P					
IP211-X15	4 to 20 mA	3 to 15	0.2 to 1.0	180 Ω	
IP211-X27	4 to 20 mA	3 to 27	0.2 to 1.9	220 Ω	
IP211-X30	4 to 20 mA	6 to 30	0.4 to 2.1	220 Ω	
IP211-X60	4 to 20 mA	2 to 60	0.1 to 4.1	225 Ω	
IP211-X120	4 to 20 mA	3 to 120	0.2 to 8.3	260 Ω	
FM APPROVED† INTRINSIC	CALLY SAFE I/P				
IP211-X15-ISF	4 to 20 mA	3 to 15	0.2 to 1.0	180 Ω	
IP211-X27-ISF	4 to 20 mA	3 to 27	0.2 to 1.9	220 Ω	
CSA APPROVED† INTRINS	ICALLY SAFE I/P				
IP211-X15-ISC	4 to 20 mA	3 to 15	0.2 to 1.0	180 Ω	
IP211-X27-ISC	4 to 20 mA	3 to 27	0.2 to 1.9	220 Ω	
GENERAL PURPOSE E/P					
EP211-X15	1 to 5 Vdc	3 to 15	0.2 to 1.0	615 Ω	
EP211-X15-5V	0 to 5 Vdc	3 to 15	0.2 to 1.0	615 Ω	
EP211-X15-10V	0 to 10 Vdc	3 to 15	0.2 to 1.0	985 Ω	
EP211-X27	1 to 5 Vdc	3 to 27	0.2 to 1.9	530 Ω	
EP211-X27-5V	0 to 5 Vdc	3 to 27	0.2 to 1.9	530 Ω	
EP211-X27-10V	0 to 10 Vdc	3 to 27	0.2 to 1.9	840 Ω	
EP211-X30	1 to 5 Vdc	6 to 30	0.4 to 2.1	530 Ω	
EP211-X30-5V	0 to 5 Vdc	6 to 30	0.4 to 2.1	530 Ω	
EP211-X60-5V	0 to 5 Vdc	2 to 60	0.1 to 4.1	500 Ω	
EP211-X120-10V	0 to 10 Vdc	3 to 120	0.2 to 8.3	805 Ω	
ACCESSORY					
TX4-100	30.48 m (100') of	4-conductor shield	ed wire		
IAT IOO	00.40 111 (100) 01	30.48 m (100') of 4-conductor shielded wire			

Comes complete with operator's manual and mounting bracket.

Ordering Example: IP211-X30, electropneumatic converter with 6 to 30 psig output, TX4-100, 4-conductor shielded wire.

ELECTROPNEUMATIC CONVERTERS

Current to Pressure (I/P) and Voltage to Pressure (E/P) Models

IP510 Series



- and Intrinsically Safe Ratings
- ✓ NEMA 4X (IP66)
- ✓ 0.1% Accuracy Typical
- Closed-Loop Pressure Feedback Control
- ✓ Built-In Volume Booster **Provides Flow Up to** 12 SCFM
- Easy Access to Zero and Span
- ✓ Damping Pot Prevents **Overshoot and Hunting**
- **✓** Low Air Consumption
- Mount at Any Angle
- Compact and Lightweight
- ✓ Virtually No Sensitivity to Supply Pressure Changes
- ✓ Removable Orifice for **Easy Maintenance**
- ✓ Buna-N Seals Standard
- ✓ Fluorocarbon Seals Optional

The IP510/EP510 Series is a patented family of electropneumatic instruments used to reduce a supply pressure to a regulated output pressure that is directly proportional to a 2-wire current or 3-wire voltage input.

This design incorporates closedloop sensing of the output pressure to achieve excellent accuracy and vibration stability. It also features a unique damping circuit that can be adjusted to prevent overshoot and actuator "hunting." Model selection includes general purpose NEMA 1 (IP00) and watertight/corrosion-resistant NEMA 4X (IP66). All models carry hazardous location and intrinsically safe ratings.

SPECIFICATIONS

Accuracy:

Typical: ±0.1% of output span Maximum: ±0.25% of output span **Hysteresis:**

Typical: ±0.01% of output span Maximum: ±0.10% of output span

Deadband: No effect

Repeatability:

Typical: ±0.01% of output span Maximum: ±0.10% of output span Ambient Temperature Effect:

Typical: ±0.004% of nominal span

EP511-X30. shown smaller than actual size.

> IP510-X27. shown smaller than actual size.

Maximum: ±0.022% of nominal span per °F

Span:

Typical: 0.013% of cálibrated span per °F Maximum: 0.022% of calibrated span per °F **Temperature Effect:**

≤0.02%/°F, zero and span effects combined

HEAVY-DUTY ELECTROPNEUMATIC CONVERTERS

Operating Temperature Range: Buna-N Elastomers: -29 to 71°C (-20 to 160°F) Fluorocarbon Elastomers: -18 to 71°C (0 to 160°F) **Storage Temperature:**

Buna-N Elastomers: -40 to 93°C (-40 to 200°F) Fluorocarbon Elastomers: -26 to 93°C (-15 to 200°F)

Vibration Effects: Less than 0.5% of span per 1 g 5 to 2000 Hz, 3 g maximum, 3 axes

Mounting Position Effect: Not measurable

Loop Load, I/P Transducer: Less than 10 Vdc drop at 20 mA Less than 10 Vdc drop at 50 mA

Supply Voltage, E/P Transducer: Intrinsically Safe/Non-Incendive: 9 to 28 Vdc, less than 20 mA General Purpose: 9 to 40 Vdc, less than 20 mA

Supply Voltage Effect: No effect Signal Impedance E/P Transducer: 6000 Ω minimum

RFI/EMI Effect NEMA 4X (IP66): Less than 0.25% of span change in output 10 V/meter, 20 to 1000 MHz (Reference SAMA PML 33.1 to 1978,

2 to abc) Supply Pressure Sensitivity: No effect **Effective Air Consumption:**

0.07 SCFM (2 LPM) maximum Supply Pressure:

100 psig (6.9 bar) maximum **Port Sizes:**

Pneumatic: 1/4 FNPT Electrical: ½ FNPT

Agency Approvals—All 510 and 511 electropneumatic converters are approved by FM and CSA as intrinsincally safe Class I, Division 1, Groups A, B, C, D hazardous locations.

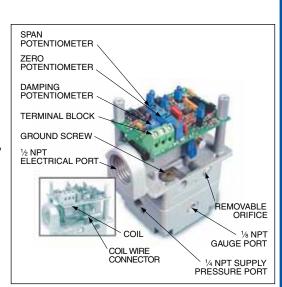
The 511 (NEMA 4X) models are also approved for FM and CSA explosion-proof service: Class I, Division 1 and 2, Groups B, C, D. Dust ignition-proof service: Class II, Division 1 and 2, Groups E, F, G.

NEMA 4X units are also suitable for Class III, Division 1 and 2.

Warning: These ratings are valid ONLY WHEN the cover is fully installed and the electrical connections conform to required standards.

ENTITY PARAMETERS

 $V_{max} = 30$ Vdc, $I_{max} = 100$ mA, $C_i = 0$ μF , $L_i = 0$ mH T4 Max. Ambient 70°C. V_{oc} and I_{sc} of a barrier shall be exceed V_{max} and I_{max} of the transducer. $(L_i + wiring)$ and $(C_i + C_{wiring})$ shall not exceed L_a and C_a of a barrier. A barrier is not necessary when the transducer is in any of these locations.



To Order	To Order					
MODEL NO.	INPUT RANGE	OUTPUT RANGE				
NEMA 1 (IP00) EN	NEMA 1 (IP00) ENCLOSURE					
IP510-X15	4 to 20 mA	3 to 15 psig				
IP510-X27	4 to 20 mA	3 to 27 psig				
IP510-X30	4 to 20 mA	6 to 30 psig				
IP510-060	4 to 20 mA	0 to 60 psig				
IP510-0120	4 to 20 mA	0 to 120 psig				
EP510-X15	1 to 5 Vdc	3 to 15 psig				
EP510-X27	1 to 5 Vdc	3 to 27 psig				
EP510-X30	1 to 5 Vdc 6 to 30 psig					
EP510-060	1 to 5 Vdc	0 to 60 psig				
EP510-0120	1 to 5 Vdc	0 to 120 psig				
NEMA 4X (IP66) E	NCLOSURE					
IP511-X15	4 to 20 mA	3 to 15 psig				
IP511-X27	4 to 20 mA	3 to 27 psig				
IP511-X30	4 to 20 mA	6 to 30 psig				
IP511-060	4 to 20 mA	0 to 60 psig				
IP511-0120	4 to 20 mA	0 to 120 psig				
EP511-X15	1 to 5 Vdc 3 to 15 psig					
EP511-X27	1 to 5 Vdc	3 to 27 psig				
EP511-X30	1 to 5 Vdc	6 to 30 psig				
EP511-060	1 to 5 Vdc	0 to 60 psig				
EP511-0120	1 to 5 Vdc	0 to 120 psig				

ACCESSORY

MODEL NO.	DESCRIPTION	
TX4-100	4-conductor shielded wire	

Comes complete with operator's manual

Note: To order fluorocarbon seals, add suffix "-F" to model numbers and additional cost to price. Ordering Example: IP511-X30, electropneumatic converter, 4 to 20 mA input/6 to 30 psi output with NEMA 4X (IP66) enclosure, TX4-100, 4-conductor shielded cable.

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ELECTRONIC AIR PRESSURE CONTROL

Up to 1% Accuracy 3-15 to 0-120 psi ±0.1% Accuracy 3-15 to 0-100 psi

IP610 Series IP710 Series



- Compact Size for High-**Density Mounting**
- ✓ NEMA 4X (IP65) **Enclosure**
- ✓ 4 to 20 mA Loop Powered
- ✓ Conduit or DIN Connector Wiring
- ✓ Wall or Panel **Mounting Standard**
- ✓ Optional DIN Rail Mounting Kit
- ✓ Input/Output Ports on Front and Back
- External Zero and Span Adjustments

The IP610 and IP710 are electronic pressure regulators, converting a 4 to 20 mA signal to a proportional pneumatic output. Both units feature a compact housing, accessible ports and easy adjustments, making them ideal for space-constrained applications. They also feature high tolerance for impure air and an integral volume booster, providing high flow capacity, increasing control speed in critical applications.



IP710-X100-D with DIN electrical termination shown actual size.

The IP610 is an economical unit, with precision air pressure regulation for actuators, valves, positioners and other final control elements.

The IP710 utilizes closed-loop pressure feedback circuitry to provide precise, stable pressure outputs, with immunity to vibration effects or mounting position and low air consumption, for demanding applications.

SPECIFICATIONS

Agency Approvals: FM and CSA Intrinsically Safe

IP610/IP710: Class I, II, III, Div. 1, Groups C, D, E, F and G IP610-D/IP710-D: Class I, Div. 1,

Groups C and D

Input Signal: 4 to 20 mA loop powered Accuracy: Includes linearity, hysteresis

and repeatability-see table

Supply Pressure Sensitivity: 0.1% of span per psi (±0.02% for

zero-based units)

RFI/EMI Effect: 0.5% of span change in output pressure per En 61000-4-3:1998, Amendment 1, Performance Criterion A



IP610-X60 with conduit electrical termination shown actual size.

Supply Pressure Sensitivity: 0.1% of span per psi (±0.02% for zero-based units)

Air Consumption: 1.8 SCFH typical (6.0 SCFH for zero-based units)

Temperature Limits:

IP610: -30 to 65°C (-20 to 150°F) **IP710:** -40 to 70°C (-40 to 158°F)

Media: Clean, dry, oil-free, instrument air, filtered to 40 microns

Pressure Ports: 1/4 FNPT Electrical Connections: ½ FNPT conduit or DIN 43560 connector

Mounting: Direct wall, panel, or optional DIN rail

Materials

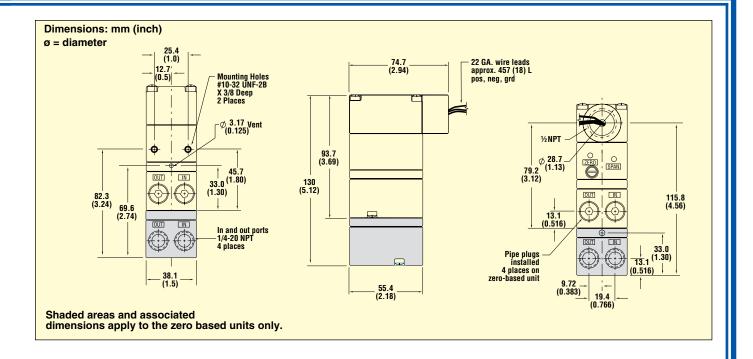
Housing: Chromate-treated aluminum with epoxy paint, NEMA 4X (IP65) rated Elastomers: Buna-N

Trim: Stainless steel and zinc-plated brass

Weight:

IP610: 590 g (1.3 lb) or 770 g (1.7 lb)

for zero-based units **IP710:** 370 g (0.8 lb)



To Order	To Order					
MODEL NO.	RANGE	ACCURACY*	IMPEDANCE	AIR CONSUMPTION	SUPPLY PRESSURE (PSI)	FLOW CAPACITY
GENERAL PU	RPOSE I/P CONVEI	RTERS				
IP610-X15	3 to 15 psi		180 Ω		20 to 100	1.5 sefm @ 25 psig
IP610-X27	3 to 27 psi	±1.0% span	240 Ω		32 to 100	4.5 scfm @ 25 psig 12 scfm @ 100 psig
IP610-X30	6 to 30 psi	•	240 Ω	1.8 scfh @	35 to 100	
IP610-X60	2 to 60 psi		$245~\Omega$	mid-range	65 to 150	12 scfm @ 100 psig
IP610-X120	3 to 120 psi		$280~\Omega$		125 to 150	20 scfm @ 150 psig
IP610-30	0 to 30 psi	±2.5% span	290 Ω		35 to 100	
IP610-60	0 to 60 psi		$300~\Omega$	6.0 scfh @	65 to 150	12 scfm @ 100 psig 20 scfm @ 150 psig
IP610-120	0 to 120 psi		$315~\Omega$	mid-range	125 to 150	20 Scilli @ 150 psig
HIGH ACCURA	ACY I/P CONVERTE	RS				
IP710-X15	3 to 15 psi				20 to 100	
IP710-X17	1 to 17 psi			1.5 scfh @	22 to 100	4.5 scfm @ 25 psig
IP710-X27	3 to 27 psi	±0.10% span	10 kΩ	mid-range	32 to 100	12 scfm @ 100 psig
IP710-X30	6 to 30 psi			4.5 scfh @	35 to 100	
IP710-X60	2 to 60 psi				65 to 130	20 scfm @ 130 psig
IP710-X100	2 to 100 psi			mid-range	105 to 130	20 Scilli & 130 psig

^{*} Accuracy includes linearity, hysteresis and repeatability.

ACCESSORY

 400E000111		
MODEL NO.	DESCRIPTION	
IP610-DM	DIN rail mounting kit	

Comes complete with mounting bracket and operator's manual.

To order with DIN connector, add suffix "-D" to model number, for an additional cost.

Ordering Examples: IP610-X15, loop powered I/P converter with 3 to 15 psi range and conduit connection.

IP710-X15-D. high accuracy loop powered I/P converter with 3 to 15 psi range and DIN connector.

MINIATIDE I/D TDANCNIFEDC
Rometec srl - www.rometec.it - info@rometec.it - kometec srl - www.rometec.it - info@rometec.it

ELECTRONIC AIR PRESSURE CONTROL

Up to 1% Accuracy 3-15 to 0-120 psi ±0.1% Accuracy 3-15 to 0-100 psi

IP610 Series IP710 Series









- ✓ NEMA 4X (IP65) **Enclosure**
- ✓ 4 to 20 mA Loop Powered
- ✓ Conduit or DIN Connector Wiring
- ✓ Wall or Panel **Mounting Standard**
- ✓ Optional DIN Rail Mounting Kit
- ✓ Input/Output Ports on Front and Back
- External Zero and Span Adjustments

The IP610 and IP710 are electronic pressure regulators, converting a 4 to 20 mA signal to a proportional pneumatic output. Both units feature a compact housing, accessible ports and easy adjustments, making them ideal for space-constrained applications. They also feature high tolerance for impure air and an integral volume booster, providing high flow capacity, increasing control speed in critical applications.



IP710-X100-D with DIN electrical termination shown actual size.

The IP610 is an economical unit, with precision air pressure regulation for actuators, valves, positioners and other final control elements.

The IP710 utilizes closed-loop pressure feedback circuitry to provide precise, stable pressure outputs, with immunity to vibration effects or mounting position and low air consumption, for demanding applications.

SPECIFICATIONS

Agency Approvals: FM and CSA Intrinsically Safe

IP610/IP710: Class I, II, III, Div. 1, Groups C, D, E, F and G IP610-D/IP710-D: Class I, Div. 1,

Groups C and D

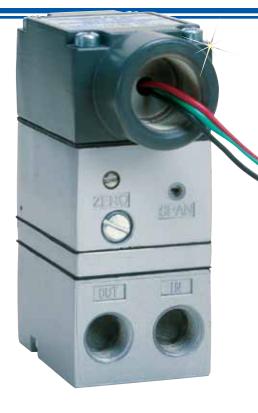
Input Signal: 4 to 20 mA loop powered Accuracy: Includes linearity, hysteresis

and repeatability-see table

Supply Pressure Sensitivity: 0.1% of span per psi (±0.02% for

zero-based units)

RFI/EMI Effect: 0.5% of span change in output pressure per En 61000-4-3:1998, Amendment 1, Performance Criterion A



IP610-X60 with conduit electrical termination shown actual size.

Supply Pressure Sensitivity: 0.1% of span per psi (±0.02% for zero-based units)

Air Consumption: 1.8 SCFH typical (6.0 SCFH for zero-based units)

Temperature Limits:

IP610: -30 to 65°C (-20 to 150°F) **IP710:** -40 to 70°C (-40 to 158°F) Media: Clean, dry, oil-free, instrument

air, filtered to 40 microns Pressure Ports: 1/4 FNPT

Electrical Connections: ½ FNPT conduit or DIN 43560 connector **Mounting:** Direct wall, panel, or optional DIN rail

Materials

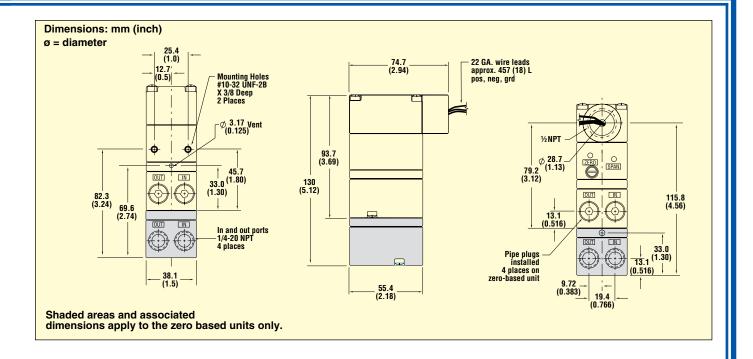
Housing: Chromate-treated aluminum with epoxy paint, NEMA 4X (IP65) rated Elastomers: Buna-N

Trim: Stainless steel and zinc-plated brass

Weight:

IP610: 590 g (1.3 lb) or 770 g (1.7 lb)

for zero-based units **IP710:** 370 g (0.8 lb)



To Order						
MODEL NO.	RANGE	ACCURACY*	IMPEDANCE	AIR CONSUMPTION	SUPPLY PRESSURE (PSI)	FLOW CAPACITY
GENERAL PU	GENERAL PURPOSE I/P CONVERTERS					
IP610-X15	3 to 15 psi		180 Ω		20 to 100	4.5 scfm @ 25 psig
IP610-X27	3 to 27 psi	±1.0% span	240 Ω		32 to 100	12 scfm @ 100 psig
IP610-X30	6 to 30 psi	•	240 Ω	240 Ω 1.8 scfh @	35 to 100	
IP610-X60	2 to 60 psi		$245~\Omega$	mid-range	65 to 150	12 scfm @ 100 psig
IP610-X120	3 to 120 psi		$280~\Omega$		125 to 150	20 scfm @ 150 psig
IP610-30	0 to 30 psi	±2.5% span	290 Ω	6.0 scfh @	35 to 100	12 scfm @ 100 psig 20 scfm @ 150 psig
IP610-60	0 to 60 psi		$300~\Omega$		65 to 150	
IP610-120	0 to 120 psi		$315~\Omega$	mid-range	125 to 150	
HIGH ACCURACY I/P CONVERTERS						
IP710-X15	3 to 15 psi				20 to 100	
IP710-X17	1 to 17 psi			1.5 scfh @ mid-range	22 to 100	4.5 scfm @ 25 psig 12 scfm @ 100 psig
IP710-X27	3 to 27 psi	±0.10% span	10 kΩ		32 to 100	
IP710-X30	6 to 30 psi]			35 to 100	
IP710-X60	2 to 60 psi			4.5 scfh @	65 to 130	20 scfm @ 130 psig
IP710-X100	2 to 100 psi			mid-range	105 to 130	20 Scilli & 130 psig

^{*} Accuracy includes linearity, hysteresis and repeatability.

ACCESSORY

 AUCLOUTT			
MODEL NO.	DESCRIPTION		
IP610-DM	DIN rail mounting kit		

Comes complete with mounting bracket and operator's manual.

To order with DIN connector, add suffix "-D" to model number, for an additional cost.

Ordering Examples: IP610-X15, loop powered I/P converter with 3 to 15 psi range and conduit connection.

IP710-X15-D. high accuracy loop powered I/P converter with 3 to 15 psi range and DIN connector.

MODULAR PRESSURE SENSOR

Configurable—High Accuracy—High Temperature Performance For Industrial, Test and Measurement, and Aerospace Applications

Low Pressure from 10 in-H₂0 to 2.5 psi and Standard Ranges from 5 to 5000 psi Metric Ranges: 25 mbar to 350 bar

MM Series Pressure **Transducers**



Most Popular Models in Stock! Fast Delivery for Thousands of **Configurations** MMG050VP5C0T3A3, features 50 psig, mV output, 0.40% accuracy, cable termination.

- Customer Selectable Features
- ✓ Fast Delivery
- ✓ High Accuracy
- ✓ Up to ±0.03% Linearity

Available Accuracies:

±0.05% FS BSL Accuracy

±0.08% FS BSL Accuracy ±0.20% FS BSL Accuracy

±0.40% FS BSL Accuracy

✓ Premium Temperature **Performance**

Broad Compensated Range

Gage, Absolute, Barometric, Vacuum, Compound and Differential

✓ 5-Point NIST Traceable Calibration

output, 0.08% accuracy, twist-lock termination.

MMG10WVP3C1T2A2, features 0 to 10 in-H2O,

MMG100C1P5C6T3A3,

features 100 psig

4 to 20 mA output, 0.40% accuracy,

mini DIN termination.

All models shown actual size.

Week Delivery on Custom Configurations

MMDWU015VP5C1T3A3, features 15 psid, mV output, 0.40% accuracy, twist-lock termination.

Note: BSL = Best Straight Line.

CONTROLL CONTROLL CO

MEASUREMENT APPLICATIONS



○ OMEGA™

OMEGA has developed a rapid delivery system for its new Micro Machined Silicon product line.

You can have your pick of pressure ports, electrical connections, pressure range and units, thermal range and accuracy and accessories like trim pots. There are over 1-million possible combinations. OMEGA can deliver reasonable quantities of almost any combination within 5 working days. We have an easy-to-use configurator online at omega.com where you can select the transducer with the exact specifications for your project.

We also have the most popular configurations stocked for same day shipment!

OMEGA's micro-machined piezoresistive pressure transducers have a proven record in high performance commercial, automotive, test and measurement and aerospace applications. The piezoresistive process uses strain gages molecularly embedded into a highly stable silicon wafer. The silicon wafer is diced into individual die which each contain a full strain gage bridge. The die is mounted in a sealed chamber protected from the environment by glass to metal seals and a pressure sensitive stainless steel diaphragm. A small volume of silicone oil transfers the pressure from the diaphragm to the strain bridge. The construction provides a very rugged transducer with exceptional accuracy, stability and thermal effects.

A unique design ruggedizes the transducers by providing secondary fluid containment in the event of a diaphragm rupture.

- ✓ Five Accuracies
- ✓ Ninety-Two Pressure Ranges
- ✓ Ten Electrical Outputs
- ✓ Four Thermal Ranges
- ✓ Fourteen Pressure Ports
- ✓ Five Electrical Terminations
- ✓ Over 1.000.000 Combinations!



CABLE CONNECTION			
COLOR	mV	5/10V	mA
BLACK	– EXC	Common	– EXC
WHITE	+ SIG	+ Out	+ CAL
GREEN	– SIG	SHUNT	SHUNT
RED	+ EXC	+ EXC	+ EXC

M12, MINI DIN AND SOLDER PINS CONNECTION				
PIN	mV	5/10V	mA	
1	+ EXC	+ EXC	+ Supply	
2	– EXC	Common	- Supply	
3	+ OUT	+ Output	NC	
4	– OUT	NC	NC	

TWIST-LOCK CONNECTION					
PIN	mV	5/10V	mA		
Α	+ EXC	+ EXC	+ EXC		
В	– EXC	Common	– EXC		
С	+ OUT	+ OUT	+ SHUNT		
D	- OUT	+ SHUNT	+ SHUNT		
E	NC	NC	NC		
F	NC	NC	NC		

COMMON SPECIFICATIONS G/A/V/CG/BARO

Approvals: RoHS and CE

Calibration: 5-point NIST traceable Bandwidth: DC to 1 kHz typical Response Time: < 1 ms

CE Compliant: IEC61326 Emissions: IEC550022 Class B

Electrostatic Discharge Immunity: IEC1000-4-2

EM Field Immunity: IEC61000-4-3 EFT Immunity: IEC61000-4-4 Surge Immunity: IEC61000-4-5 Conducted RF: IEC61000-4-6

Rate Power Frequency Magnetic Field: IEC61000-4-8 Minimum Resistance Between Body and Any Wire:

100 MΩ @ 50 Vdc

Weight: 115 to 200 g (4 to 7 oz) (depending

upon configuration) **Environmental**

Operating Temperature: -45 to 121°C (-49 to 250°F)

Protection:

Cable: 2 m (6') IP67 mini DIN: IP65

Twist-Lock and M12: IP65

Conduit 2 m (6') Cable with ½ NPT Conduit Fitting: IP67

Mechanical

Wetted Parts: 316L stainless steel Media: Compatible with 316L SS Pressure Cycles: 1 million minimum Long Term Stability (1-Year): ±0.1% FS typical

Shock: 50 g, 11 mS half sine, vertical and horizontal axis Vibration: 5-2000-5 Hz, 30 minute cycle, curve L, mil-spec

810 figure 514-2-2, vertical and horizontal axis

Overpressure Gage Pressure:

10-in H₂O: 10 times span

1 psi: 6 times span

2.5 psi to 3500 psi: 4 times span 5000 psi: 15.000 psi max **Overpressure Absolute Pressure:**

5 psia: 6 times span

2.5 psia to 3500 psia: 4 times span

5000 psia: 15000 psi max **Secondary Containment** Gage/Diff/Vac/Compound: 10 in-H₂O to 5 psi: To 1000 psi **15 to 1000 psi:** To 3000 psi 1500 to 5000 psi: To 15,000 psi

Absolute/Barometric:

5 to 1000 psi: To 6000 psia **1500 to 5000 psi:** To 15,000 psia

Excitation

3 mV/V: 10 Vdc (ratiometric 5 to 10 Vdc) 10 mV/V: 10 Vdc (ratiometric 5 to 10 Vdc) 0 to 5 Vdc: 10 to 30 Vdc @ 10 mA 0 to 10 Vdc: 15 to 30 Vdc @ 10 mA

4 to 20 mA: 9 to 30 Vdc (9 to 20 Vdc above 229°F) Bipolar Amplifiers: Same as corresponding

outputs from above—compound and some differential

pressure models

MM CEDIEC CANITADY
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1½ or 2"

PROCESS SENSORS

Using Micro-Machined Silicon Technology 10 mV/V, 0 to 5 Vdc, 4 to 20 mA Outputs

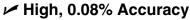
Gage Pressure: 10 inH₂0 to 600 psi (25 mb to 41 bar) Absolute Pressure: 5 to 600 psi (345 mb to 41 bar) Compound Gage: ±10 inH20 to ±15 psi (±25 mb to ±1 bar) Vacuum (Negative Gage): 0 to -10 inH₂0 to 0 to -15 psi

(25 mb to 1 bar)

Barometric Ranges: 0 to 32 inHg to 26 to 32 inHg

Sanitary Pressure Transducers and Transmitters





- ✓ Solid State Sensor for **Durability**
- ✓ Excellent Long Term Stability
- Welded Stainless Steel Construction
- ✓ 316L SS Wetted Parts
- Shock and Vibration Rated
- High Overpressure Rating
- Ruggedized with **Secondary Containment** System

The MM Series micro-machined silicon transducers with 1½ or 2" sanitary fittings are ideal for pressure or level CIP applications

in food processing, beverage or bio/pharmaceutical applications as well as industrial applications that require a rugged, high accuracy transducer. The micro-machined silicon sensor provides a transducer with excellent long term stability. The modular construction allows for fast delivery of most configurations and fittings.

COMMON SPECIFICATIONS SANITARY

Accuracy: 0.4% to 0.05% best straight line (linearity, hysteresis and repeatability combined)

Note: bidirectional differential models calibrated in positive direction only

Calibration: 5-point NIST traceable calibration with zero and span values, calibrated in horizontal direction

Zero Balance: ±0.5% FS typical ±1% max (for ranges ≤2.5 psi ±1 % typ. ±2% max)



smaller than actual size.

Span Setting: ±0.5% FS typical ±1% max (for ranges ≤2.5 psi ±1% typ. ±2% max)

Operating Temperature Range: -15 to 115°C (-5 to 240°F)

Compensated Temperature Range:

Ranges \leq 5 psi: 4.4 to 60°C (40 to 140°F)

Ranges > 5 psi: -4 to 85°C (25 to 185°F)

Temperature Compensation:

Zero and Span Shift Over Compensated Range

Ranges ≤ 25 psi: **Zero:** 1.00% Span: 0.70% Range = 5 psi: **Zero:** 0.80% **Span:** 0.50%

Ranges > 5psi: **Zero:** 0.50% **Span:** 0.50%

26B & 26HB Barometric Range:

Zero: 0.90% **Span:** 0.50%

Minimum Isolation Between Case and **Output Terminations:**

100M Ω @ 50 Vdc

Pressure Cycles: 1 million, min Long Term Stability (1-Year): ±0.1%

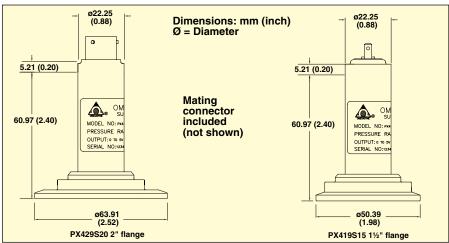
FS typ.

Shock: 50 g, 11 mS half sine shock,

(under test)

Vibration: ±20 g (under test) Bandwidth: DC to 1 kHz typical Response Time: <1 mS

Fill Fluid: NEOBEE M5 food grade



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PROCESS SENSORS

High Accuracy Pressure Transducers Piezoresistive Design With High Temperature Performance

All images shown smaller than actual size.



PX409 Cable Connection							
Color	mV 5/10V mA						
Black	– EXC	Common	Supply				
White	+ SIG	+ Output	NC				
Green	– SIG	NC	NC				
Red	+ EXC	+ EXC	+ Supply				

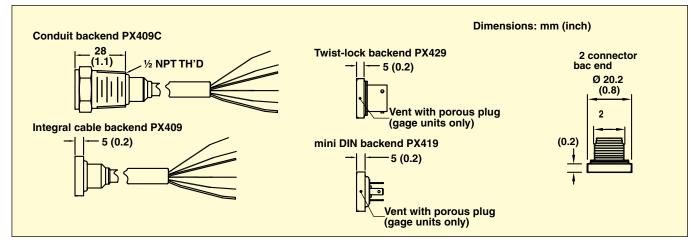


PX419/PX459 Pinout						
Pin	mV 5/10V mA					
1	+ EXC	+ EXC	+ Supply			
2	– EXC	Common	- Supply			
3	+ SIG	+ Output	NC			
4	- SIG	NC	NC			



PX429 Twist-Lock Pinout						
Pin	mV	5/10V	mA			
Α	+ EXC	+ EXC	+ Supply			
В	– EXC	Common	- Supply			
С	+ SIG	+ Output	NC			
D	– SIG	NC	NC			
Е	NC	NC	NC			
F	NC	NC	NC			

NC = No Connection.



Approved to 3A Sanitary Specification 74-03

CE Compliant: Meets industrial emissions and immunity standard IEC61326 for industrial locations

Environmental Protection:

IP65 or IP67 depending upon electrical termination

Pressure Rating:

½ and 2" Tri-Grip™ (compatible with Tri-Clamp®)

Fitting: 600 psi using suitable clamp Over Pressure: 4 x rated pressure to maximum rated flange pressure

Secondary Containment: 6 x rated pressure to a maximum of 2000 psi

(not in clamp)

Wetted Parts: 316L SS Weight: 285 g (10 oz)

OUTPUT SPECIFICATIONS

Specifications (mV/V Output)

Output: 10 mV/V: ratiometric

5 to 10 Vdc

Supply: 5 to 10 Vdc

Specifications (Amplified Voltage Output)

Output/Supply:

0 to 5 Vdc: 10 to 30 Vdc 0 to 10 Vdc: 15 to 30 Vdc Specifications (4 to 20 mA Output) Output/Supply:

Output: 4 to 20 mAdc

Supply: 9 to 30 Vdc [9 to 20 Vdc above 105°C (229°F)] max loop res $\Omega = (Vs-9) \times 50$

PROCESS SENSORS **USB OUTPUT**

USB Output Sanitary Fitting Pressure Transducer

Connect Directly to Your PC or Lapton

Gage, Absolute, Compound Gage, Vacuum and Barometric Pressures 10 inH₂0 to 600 psi (25 mb to 41 bar)

MM Sanitary USB Series



USB SANITARY SPECIFICATIONS

Accuracy: 0.08% typical best straight line, 0.14% max (linearity, hysteresis and repeatability combined) compound gage models calibrated in positive direction only

Calibration: 5-point NIST traceable calibration with zero and span values calibrated in horizontal direction

Zero Balance: ±0.5% FS typical ±1% max (for ranges ≤2.5 psi ±1% typical ±2% max)

Span Setting: ±0.5% FS typical ±1% max (for ranges ≤2.5 psi ±1% typical ±2% max)

Operating Temperature Range: -15 to 95°C (-5 to 203°F)

Compensated Temperature Range:

Ranges \leq 5 psi: 4.4 to 60°C

(40 to 140°F)

Ranges > 5 psi: -4 to 85°C (25 to 185°F)

Temperature Compensation Zero and Span Shift Over Compensated Range: Ranges ≤2.5 psi:

Zero: 1.00% **Span:** 0.70% Range = 5 psi: **Zero:** 0.80% **Span:** 0.50%

Ranges > 5psi:

Zero: 0.50% **Span:** 0.50%

26B/26HB Barometric Range:

Zero: 0.90% Span: 0.50%

Minimum Isolation Between Case and **Output Terminations:**

100M Ω @ 50 Vdc

Pressure Cycles: 250,000, minimum Long Term Stability (1-Year): ±0.1%

FS typical

Shock: 50 g, 11 mS half sine shock,

(under test)

Vibration: ±20 g (under test) Bandwidth: DC to 3 Hz typical A to D Conversion: 14 bit Response Time: <1 mS

Fill Fluid: NEOBEE M5 food grade

Approved to 3A Sanitary Specification 74-03

CE Compliant: Meets industrial emissions and immunity standard

IEC61326

Environmental Protection: IP65

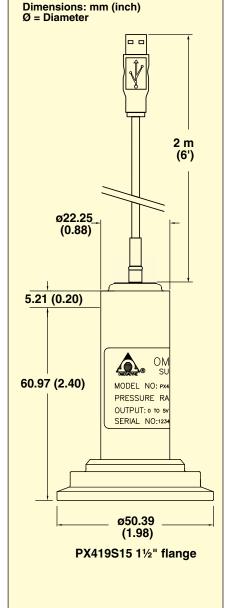
Pressure Rating: 1/2 and 2" Tri-Grip™

Fitting: 600 psi using suitable clamp Over Pressure: 4 x rated pressure to maximum rated flange pressure

Secondary Containment: 6 x rated pressure to a maximum of 2000 psi (not

in clamp)

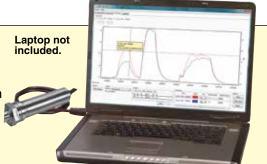
Wetted Parts: 316L SS Weight: 285 g (10 oz)





FREE SOFTWARE INCLUDED!

Each unit includes free software that converts your PC into a strip chart recorder or data logger so readings can be saved and later printed or exported to a spread sheet file. Also included are software drivers for some of the most popular Laboratory programs.



DIFFERENTIAL PRESSURE MODELS

mV/V, 0 to 5 or 0 to 10 Vdc, or 4 to 20 mA Outputs Uni-Directional or Bi- Directional 0-10 inH₂0 to 0-1000 psid

MM Series



- Precision Micro-Machined Silicon Core
- ✓ 5-Point NIST Traceable **Calibration**
- High Stability, Low Drift
- Welded Stainless Steel Construction
- ✓ 316L SS Wetted Parts
- ✓ Premium Temperature **Performance**
- Broad Compensated **Temperature Range**
- ✓ Durable, 1 Million Cycle Life
- Ruggedized with **Secondary Containment**
- Customized Specifications Available

COMMON SPECIFICATIONS DIFFERENTIAL

Accuracy: 0.4% to 0.05% best straight line (linearity, hysteresis and repeatability combined)

Note: bidirectional differential models calibrated in positive direction only

Minimum Resistance Between **Transducer Body**

and Any Wire: 100 MΩ **Operating Temperature:**

mV/V and 5 to 10 Vdc Output:

-45 to 121°C (-49 to 250°F) mA Output: -45 to 115°C

(-49 to 239°F)

Compensated Temperature Range:

10 inH₂O to 5 psi: -17 to 85°C

(1 to 185°F)

15 to 1000 psi: -29 to 85°C

(-20 to 185°F)

Thermal Accuracy:

% Span Shift over compensated

temperature range

Span Zero 10 inH₂O to 1 psi: ±1.00% ±1.00%

2.5 to 1000 psi: ±0.50 ±0.50% Pressure Cycles: 1 million minimum

Long Term Stability (1-Year):

±0.1% FS typical

Bandwidth: DC to 1 kHz typical

Response Time: <1 ms

CE Complient: Meets EN1326-1:

2006 for industrial locations

Shock: 50 g, 11 mS half sine, vertical and horizontal axis

Vibration: 5-2000-5 Hz, 30 minute cycle, Curve L, Mil-Spec 810 figure 514-2-2, vertical and horizontal axis

Wetted Parts: 316L stainless steel

Wet Dry:

Positive Side: 316L stainless steel Negative Side: Clean, dry, non-ionic

Line/Static Pressure: 500 psi max applied to both sides simultaneously

Proof Pressure (Differential):

 $10 \text{ inH}_2\text{O} \text{ range} = 10 \text{ times range}$ 1 psi range = 6 times range 2.5 to 750 psi ranges = 4 times range 1000 psi range = 3 times range

Hi Side Containment Pressure (Differential):

Ranges 10 inH2O to 5 psi: to 1000 psi Ranges 15 to 1000 psi: to 3000 psi

Pressure Ports: Select **Electrical Terminations:** PX409: 2 m (6') cable

PX409C: 2 m (6') cable with ½ NPT

conduit thread PX419: mini DIN

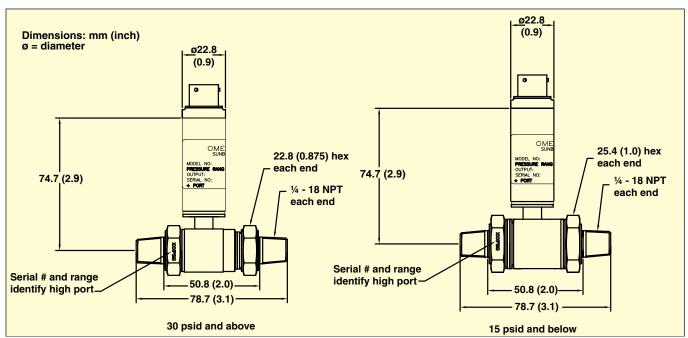
(mating connector included)

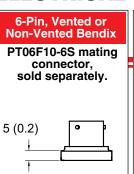
PX429: Twist-lock,

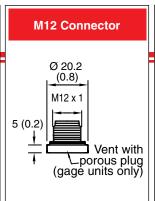
(mating connector sold separately)

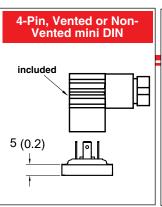
PX459: M12 connector PX429 Mating Connector: PT06F10-6S

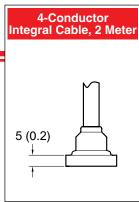
Weight: 200 g (7 oz) max

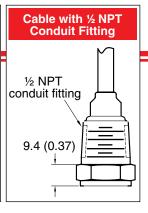




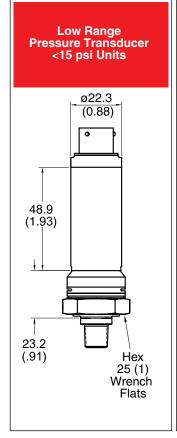


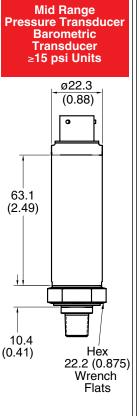


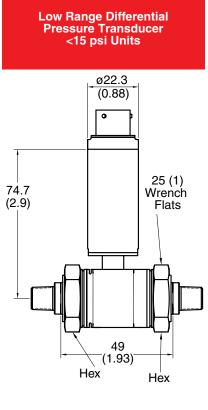


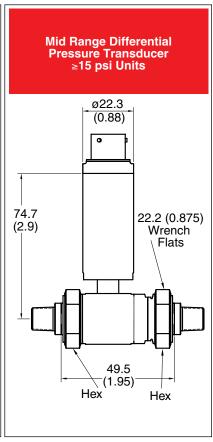


DIMENSIONS



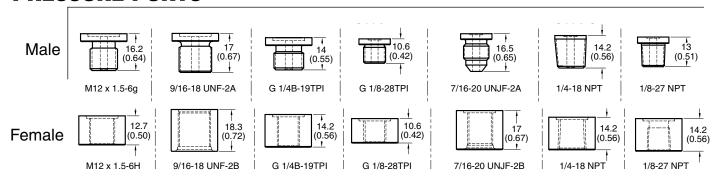






PRESSURE PORTS*

Ø = diameter Dimensions: mm (inch)



Pressure Data Logger with LCD Display

OM-CP-PR2000



- ✓ Large, Backlit LCD Display
- ✓ Front Keypad w/Lock Feature
- ✓ Standard ¼" NPT Fitting
- ✓ Real-Time Operation
- ✓ User-Selectable **Measurement Units**
- ✓ NIST Traceable Calibration
- Min/Max and Average Statistics
- ✓ Programmable Start/Stop Time
- Convenient Status Indicators
- User Replaceable Battery and External Power

The OM-CP-PR2000 is a battery powered recorder with a LCD display. It is perfect for applications requiring display pressures readings and a logger.

The 8-button keypad and large LCD provide convenient access to current data and recorder setup. Additionally, memory and battery levels, external power status, and sampling and recording status are shown on the LCD.

Available on-screen data includes: statistics (min, max, average); recording status (start, stop and recording rate); display options (units, text size); and calibration information (date calibrated, date for recalibration). Statistics can be cleared at any time during logging.

With 262,143 readings, the OM-CP-PR2000 has one of the largest memory capacities of any similar data recorder on the market. The non-volatile memory will retain recorded data, even if AC and battery power are lost.

NIST traceable calibration is available for users needing to meet regulatory requirements. Creating permanent records, performing data calculations, and the graphing of data is quick and easy: Šimply connect the interface cable to an available USB or serial port and, with a few clicks of the mouse, data is downloaded and ready for review or export to Excel.



Specifications

Pressure Sensor:

Semiconductor strain gage

Pressure Port:

1/4 NPT, AISI 303 stainless steel

Pressure Range:

0 to 30, 100, 300 and 500 psia/g;

0 to 1000 and 5000 psia

Pressure Resolution: 0.002, 0.005,

0.02, 0.05 psia/g

Calibrated Accuracy:

0.1 ms (10 to 90% FSR)

2% FSR, 0.25% @ 25°C typical **Pressure Responce Time:**

DOT-MATRIX LCD

Dimensions:

63 x 35 mm (2.5 x 1.375")

Text: Configurable channel

Indicators: Power, status, memory Backlight: Configurable w/auto shut-off and contrast adjustment Start/Stop Time: Software

programmable start time and date, up to six months in advance;

programmable stop time

Memory: 262,143 total readings; software configurable memory wrap Reading Rate: 1 reading every

2 seconds to 1 every 24 hours

Calibration: Digital calibration

through software

Calibration Date: Automatically

recorded within device

Battery Type: 6 alkaline "AA"

batteries (included), user

replaceable; optional ac adaptor

Battery Life: 1 year battery life at 1 min reading rate with display

off. 30 days typical with continuous

LCD and no backlight usage.

Data Format: PSIĞ, inHg, mmHg, bar, atm, Torr, Pa, kPa, MPa

Time Accuracy: ±1 minute/month

(at 20° to 30°C)

Computer Interface: PC serial or USB (interface cable required);

115,200 baud

Software: XP SP3/Vista/7 and 8

(32-bit and 64-bit)

Operating Environment: -20 to 54°C, (-4 to 129°F) 0 to 95% RH non-condensing

Dimensions:

122 L x 84 W x 32 mm Dia (5.1 x 4.8 x 1.78")

Weight: 1134 g (40 oz)

Enclosure: Black anodized aluminum case/NPT steel

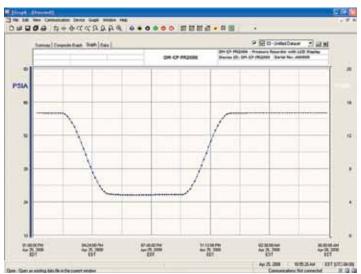
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To Order, Call Table Table or Shop Online at omega.com 1



OM-CP-PR2000-30-A, data logger shown larger than actual size

OM-CP-IFC200, Windows® software displays data in graphical or tabular format



To Order	
Model No.	Description
OM-CP-PR2000-30-A	0 to 30 psia pressure data logger with LCD display
OM-CP-PR2000-30-G	0 to 30 psig pressure data logger with LCD display
OM-CP-PR2000-100-A	0 to 100 psia pressure data logger with LCD display
OM-CP-PR2000-100-G	0 to 100 psig pressure data logger with LCD display
OM-CP-PR2000-300-A	0 to 300 psia pressure data logger with LCD display
OM-CP-PR2000-300-G	0 to 300 psig pressure data logger with LCD display
OM-CP-PR2000-500-A	0 to 500 psia pressure data logger with LCD display
OM-CP-PR2000-500-G	0 to 500 psig pressure data logger with LCD display
OM-CP-PR2000-1000-A	0 to 1000 psia pressure data logger with LCD display
OM-CP-PR2000-5000-A	0 to 5000 psia pressure data logger with LCD display
OM-CP-IFC200	Windows software and 1.8 m (6') USB interface cable
OM-CP-SVP-SYSTEM	FDA 21 CFR part 11 compliant IQ/OQ/PQ secure software validation workbook and software package (unlimited users, license per computer)
OM-CP-110-PWR-2000	110 Vac power adaptor
OM-CP-220-PWR-2000	220 Vac power adaptor

Comes complete with 6 "AA" batteries. Operator's manual and USB cable are included with the OM-CP-IFC200 (software is required to operate the data logger and is sold separately).

To order data logger with NIST calibration certificate, add suffix "-CERT" to model number and add additional cost to price.

Ordering Example: OM-CP-PR2000-30-A-CERT, pressure data logger with NIST calibration certificate, OM-CP-IFC200, Windows software and USB interface cable with DB9F termination.

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Differential Pressure and Thermocouple Temperature Data Logger

OM-CP-PRTC110



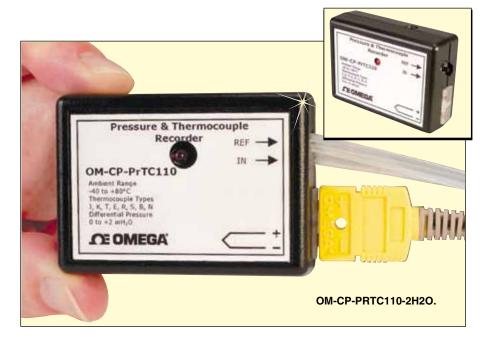
- Accepts Thermocouple Types J, K, T, E, R, S, B, and N
- High Speed Download
- Real-Time Operation
- ✓ Programmable Start Time
- ✓ Three Channels: Internal Ambient Temperature, **Remote Temperature** (Thermocouple), and Remote Pressure
- ✓ 2 Year Battery Life

The OM-CP-PRT110 is a differential pressure and temperature data logger, ideal for use in factory and laboratory applications.

The OM-CP-PRT110 features a real-time clock module that extends the battery life to >2 years and allows for high speed downloads.

This device will measure and record up to 10,922 measurements per channel. The storage medium is non-volatile solid state memory, providing maximum data security and stopped directly from your computer and its small size allows it to fit almost anywhere.

The OM-CP-PRTC110 makes data retrieval quick and easy. Simply plug it into an available com port and our user-friendly software does the rest. The software converts a PC into a real-time strip chart recorder. Data can be printed in graphical and tabular format or exported to a text or Microsoft Excel® file.



Specifications INTERNAL CHANNEL Temperature Range:

-20 to 80°C (-4 to 176°F)

Temperature Resolution: 0.1°C Calibrated Accuracy: ±0.5°C REMOTE CHANNELS Thermocouple Types:

J, K, T, E, R, S, B, and N **Thermocouple Connection:**

Female subminiature

thermocouple connector **Cold Junction Compensation:** Automatic, based on internal

channel **Maximum Thermocouple Resistance:** 1000Ω , $< 1000 \Omega$

recommended

Pressure Connections:

REF and IN ports via 1/16" ID, 5/32" Max OD, polyurethane tubing Accuracy: ±5% FSR max

at 25°C over 1 year

Start Modes:

Software programmable immediate start or delay start up six months in advance

Real-Time Recording:

May be used with PC to monitor and record data in real time Memory: 10,922 readings per channel; software configurable memory wrap

Reading Rate: 2 sec to 24 hrs, software selectable

Calibration: Digital calibration

through software Calibration Date: Automatically

recorded within device

Battery Type: 3.6V lithium battery (included), user replaceable

Battery Life: 5 years (5 minute reading rate at 25°C) Data Format: Date and time stamped °C, °F, K, R, inH₂O, PSIG, inHg, mmHg bar, atm, Torr, Pa,

kPa, and MPa

THERMOCOUPLE TYPE	RANGE	RESOLUTION	ACCURACY*
J	-210 to 760°C	0.1°C	±0.5°C
K	-260 to 1370°C	0.1°C	±0.5°C
T	-260 to 400°C	0.1°C	±0.5°C
E	-260 to 980°C	0.1°C	±0.5°C
R	-50 to 1760°C	0.5°C	±2.0°C
S	-50 to 1760°C	0.5°C	±2.0°C
В	50 to 1820°C	0.5°C	±2.0°C
N	-270 to 1300°C	0.1°C	±0.5°C
mV	-75 mV to 75 mV	5μV	±20μV

^{*} Accuracy specifications based on 3 m (9.8') 24 AWG thermocouple.



Time Accuracy: ±1 min/month

(at 20 to 30°C)

Computer Interface: PC serial or USB (interface cable required);

57,600 baud **Software:**

XP SP3/Vista/7 and 8 (32-bit and 64-bit)

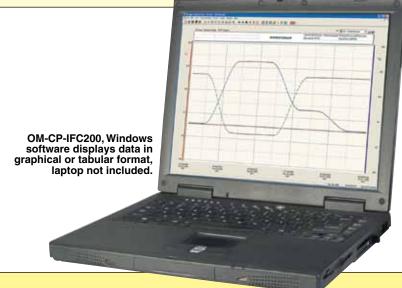
Operating Environment: -20 to 80°C (-4 to 176°F),

-20 to 80°C (-4 to 176°F), 0 to 95% RH, non-condensing

Dimensions:

41 H x 68 W x 20 mm D (1.6 x 2.7 x 0.8") plus connective tube

Enclosure: ABS plastic Weight: 250 g (8.8 oz)



To Order

10.01101						
MODEL NO.	PRESSURE RANGE	MAX PRESSURE	PRESSURE RESOLUTION	NIST CERTIFICATE		
OM-CP-PRTC110-2H2O	0 to 2 inH₂O	-2 to 4 inH₂O	0.002 inH₂O	_		
OM-CP-PRTC110-2H2O-CERT	0 to 2 inH₂O	-2 to 4 inH₂O	0.002 inH₂O	Υ		
OM-CP-PRTC110-5H2O	0 to 5 inH₂O	-2 to 8 inH₂O	0.005 inH₂O	_		
OM-CP-PRTC110-5H2O-CERT	0 to 5 inH₂O	-2 to 8 inH₂O	0.005 inH₂O	Y		

ACCESSORIES

MODEL NO.	DESCRIPTION
OM-CP-IFC200	Windows software and 1.8 m (6') USB interface cable
OM-CP-SVP-SYSTEM	FDA 21 CFR part 11 compliant IQ/OQ/PQ secure software validation workbook and software package (unlimited users, license per computer)
OM-CP-BAT105	Replacement 3.6V lithium battery

Comes complete with 3.6V lithium battery. Operator's manual and USB interface cable are included with the OM-CP-IFC200 Windows software (required to operate the data logger, sold separately).

Ordering Example: OM-CP-PRTC110-2H2O-CERT, differential pressure and temperature data logger with NIST calibration certificate, and OM-CP-IFC200, Windows software with USB interface cable.

HANDHEID DRECCIRE Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it CALIBRATUR WITH INTEGRAL ELECTRIC PRESSURE PUMP

PCL819 Series



- ✓ Internal Electric Pressure **Pump Generates Pressure** from -0.8 to 20 bar (-12 to 300 psi)
- ✓ Accuracy to 0.025% FS
- ✓ Source and Measure 4 to 20 mA
- ✓ 24 Vdc Loop Power Supply to Power Device **Under Test**
- Rugged, Compact Design, Just 1.2 kg (2.5 lb)
- Operates on 8 Standard "AA" Alkaline Batteries
- ✓ Pt100 RTD Input for Temperature Measurement
- ✓ Accepts All PCL-PM **Series External Pressure Modules (PCL-PMA** Module Adaptor Required)
- ✓ Large Graphic Style LCD with Backlight Can be Configured to Display Up to 3 Inputs Simultaneously
- ✓ 15 User Selectable **Pressure Units**

OMEGA's PCL819 combines a high performance handheld pressure calibrator with an integral electric pressure pump in a small, lightweight, handheld unit. Before this innovation, users had to manually generate pressure using cumbersome manual pumps or large, heavy boxes with limited portability and battery life. The PCL819 is only slightly larger than the PCL340 series and weighs in at a mere 1.2 kg (2.5 lb). The housing is easily contoured to fit a technicians hand with good balance top to bottom. The internal pump

can generate vacuum or pressure from -12 to 300 psig.

The PCL819 has an internal isolated pressure sensor with 0.025% of full scale accuracy and comes in three gauge and two absolute pressure ranges. It is also compatible with the PCL-PM series external pressure modules which come in ranges from 5 to 5000 psig and also differential, absolute and compound ranges. A PCL-PMA module adaptor is required to use external modules.

In addition to pressure the unit also has an input for Pt100 RTD sensors for temperature and can measure and simulate 4 to 20 mA current loops. The large LCD graphic display can be configured to display up to 3 variables at the same time by the user. It provides a number of convenience features such as switch testing, percent error, and a damping function. Up to 5 frequently used configuration can be stored and retrieved with one button recall.

PCL819

PRESSURE INSTRUMENTS



SPECIFICATIONS

Accuracy:

Pressure: ±0.025% FS from 15 to 35°C (59 to 95°F) (add 0.002%/°C

outside of 15 to 35°C) **mA:** $\pm 0.015\%$ of reading ± 2

counts (simulation and measurement) Volts: ±0.015% of reading ±2 counts (measurement only) Temperature: ±0.1°C (0.2°C)

(measurement only) **Operating Temperature:** -10 to 50°C (14 to 122°F)

Storage Temperature: -20 to 60°C (-4 to 160°F)

Internal Pump: Electrically operated pneumatic pump generates -0.8 to 20 bar (-12 to 300 psi)

Batteries: 8 "AA" Alkaline batteries

(included)

Battery Life: 100 pump cycles to 300 psi or 1000 cycles to

30 psi minimum

Pressure Connection: 1/8 NPT female **Electrical Connection: Standard**

banana jacks

RTD Connection: 4 pin LEMO style External Module: 6 pin LEMO style Dimensions: 200 H x 100 W x 60 mm D

(8 x 4 x 2%")

Weight: 1.2 kg (2.5 lb)



PCL-PMA, pressure module adaptor, shown smaller than actual size.

PCL-PMA, pressure module adaptor, shown with PCL-PM1KG, 0 to 1000 psi external pressure module, sold separately. See OMEGA for more information and complete listing of available modules.

To Order		
MODEL NO.	RANGE	TYPE
PCL819-30	-0.8 to 2 bar (-12 to 30 psi)	Gage
PCL819-150	-0.8 to 10 bar (-12 to 150 psi)	Gage
PCL819-300	-0.8 to 20 bar (-12 to 300 psi)	Gage
PCL819-30A	0 to 2 bar (0 to 30 psi)	Absolute
PCL819-150A	0 to 10 bar (0 to 150 psi)	Absolute

Comes complete with operator's manual, 8 "AA" batteries, test leads, test hose, dirt trap, fittings, calibration certificate, and carrying case.

ACCESSORIES

MODEL NO.	DESCRIPTION			
PCL819-TRAP	Spare liquid and dirt trap			
PCL819-BATT-KIT	Rechargeable battery kit			
PCL-PMA	Pressure module adaptor (required to use PCL-PM series external pressure modules)			

Ordering Examples: PCL819-150, -12 to 150 psig portable calibrator with built-in electric pump.

PCL819-30A, 0 to 30 psia portable calibrator with built-in electric pump, **PCL-PMA,** pressure module adaptor and **PCL-PM100G,** 0 to 100 psig external pressure module.

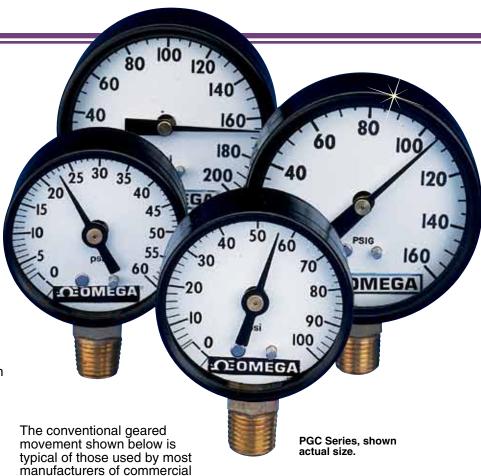
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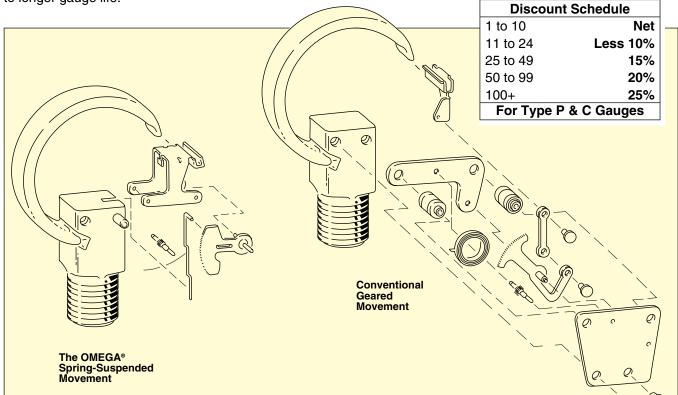
PGC Series



- ✓ Economically Priced
- ✓ Long-Lasting Movement
- **✓** Durable Construction
- Stocked Ranges for Fast Delivery

The OMEGA® spring-suspended movement represents the design of the future. Wearing parts have been reduced to a minimum. The entire movement is suspended between 2 springs, the Bourdon tube above and the link below. For the user, this means greater resistance to mechanical shock and vibration. This increased resistance to the effects of rough usage contributes to longer gauge life.





pressure gauges.

GAUGES

Standard Case

The high reliability of the OMEGA® commercial gauge line is chiefly attributable to the unique OMEGA® spring-suspended movement. The entire movement is suspended between 2 springs, the Bourdon tube above and the link below. Wearing parts have been reduced to a minimum. Movement parts are ultrasonically cleaned and lubricated with silicone oil to ensure long cycle life. The OMEGA® springsuspended movement is largely resistant to shock, pulsation, and vibration. The result is longer gauge life. The numerous applications for OMEGA® commercial gauges include installation on pumps, portable compressors, industrial machinery, hydraulic and pneumatic systems, instrumentation, and pressurized vessels.

SPECIFICATIONS

Temperature: 66°C (150°F) maximum

Case: Painted steel

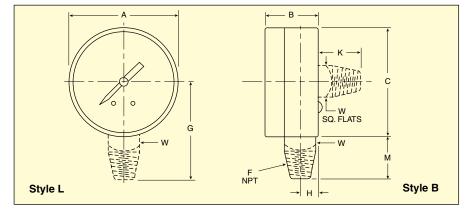
Window: Polycarbonate plastic Bourdon Tube: Bronze Connection: Brass ¼ NPT Ranges: Vacuum to 600 psi

Accuracy: 3-2-3% (3% over first and last 10% of range, 2% over remainder)

STANDARD RANGES

RANGE CODE	RANGE
30V	30/0 inHg vac
30V/15	30 inHg vac to 15 psi
30V/30	30 inHg vac to 30 psi
30V/100	30 inHg vac to 100 psi
15	0 to 15 psi
30	0 to 30 psi
60	0 to 60 psi
100	0 to 100 psi
160	0 to 160 psi
300	0 to 300 psi
400	0 to 400 psi
600	0 to 600 psi





Dimensions: mm (inch)

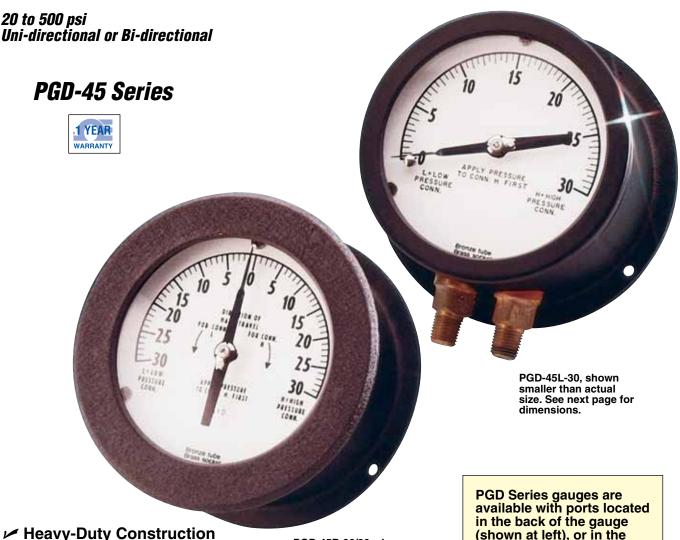
DIAL		E			F						WT
SIZE	Α	LOWER	BACK	С	NPT	G	Н	K	M	W	(OZ)
50.8 (2)	53 (2 ⁷ / ₆₄)	27 (1¾)	26 (1½)	54 (2 ⁷ / ₆₄)	1/4	47 (1 ²⁷ / ₃₂)	10 (%)	22 (%)	20 (²⁵ / ₃₂)	14 (%16)	4½
63.5 (2½)	69 (2 ²³ / ₂)	29 (1½)	29 (1½)	68 (2 ¹ ½6)	1/4	55 (2½)	10 (%)	22 (%)	20 (²⁵ / ₃₂)	14 (%6)	6

To Order Visit omega.com/pgc for Pricing and Details				
DIAL SIZE	MODEL NO.	CONNECTION		
011	PGC-20L-[*]	Lower		
2"	PGC-20B-[*]	Back		
2 ½"	PGC-25L-[*]	Lower		
4 /2	PGC-25B-[*]	Back		

[*] Insert range code from Standard Ranges table. Other standard ranges available; visit omega.com

Ordering Example: PGC-20B-30, commercial pressure gauge with 2" dial, back connection and 0/30 psi range.

UNI-DIRECTIONAL OR BI-DIRECTIONAL



Heavy-Duty Construction

✓ Double-Strength, **Shatter-Resistant Glass**

✓ 2-1-2% ANSI Grade A Accuracy

OMEGA's PGD Series differential pressure gauges are rugged industrial gauges that indicate the difference between 2 input connections. Differential ranges provide the maximum resolution for applications in which one input is always at a higher pressure than the other. In cases in which one input can be higher or lower than the other, a bi-directional differential range should be used.

The PGD Series is constructed with 2 independent Bourdon tubes. The opposing Bourdon tubes are linked

to a single pinion gear that rotates a pointer for direct pressure readings. By using 2 independent Bourdon tubes, the gauge can handle liquids or gases on either or both ports.

PGD-45B-30/30, shown

size. See next page for

smaller than actual

dimensions.

The large 4½" dial makes reading pressure easy. Each gauge is equipped with a micrometer adjustment for rezeroing the gauge. Gauges are available with ports located in the lower (six o'clock) position or in the rear (for panel

mounting).

SPECIFICATIONS

(shown at right).

Accuracy: 2-1-2%, ANSI Grade A 2% first 10%, 1% middle 80%,

lower (six o'clock) position

2% top 10% Dial Size: 41/2" Dial Arc: 210°

Window: Double-strength glass Connection: 1/4 MNPT

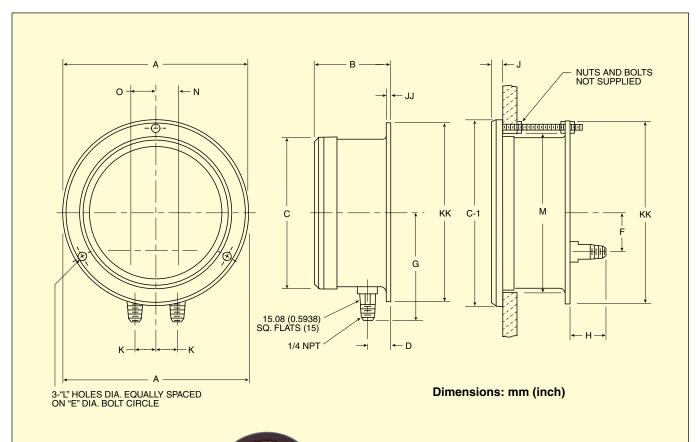
Sensor Type: Bourdon tube **Wetted Parts:**

Tube: Bronze Fittings: Brass

Case: Black epoxy-coated aluminum **Operating Temperature:** 65°C (150°F)

Weight: 1.4 kg (3 lb)

DIFFERENTIAL OR BI-DIRECTIONAL RANGES



PGD-45B-30/30, shown smaller than actual size. See below for dimensions.





PGD-45L-30, shown smaller than actual size. See below for dimensions.

To Order		
MODEL NO.	DIAL SIZE	CONNECTION
PGD-45B-(*)	41/2"	Back
PGD-45L-(*)	41/2"	Lower

^{*} Insert range code from table at right.

Ordering Example: PGD-45B-30, 114 mm ($4\frac{1}{2}$ ") differential pressure gauge with back input connection and 0 to 30 psi uni-directional range.

RANGE CODE			MINOR GRADUATION	STATIC PRES. LIMIT (psi)*
20	0/20	5	0.2	30
30	0/30	5	0.5	60
60	0/60	10	1	120
100	0/100	10	1	200
200	0/200	20	2	300
600	0/600	100	10	900
1K	0/1000	100	10	1500
15/15	15/0/15	5	0.5	60
30/30	30/0/30	10	1	120
50/50	50/0/50	10	1	200
100/100	100/0/100	20	2	300
200/200	200/0/200	50	5	600
500/500	500/0/500	100	10	1500

^{*} Maximum pressure that can be applied to either port on the gauge. **PGD-FMR**, black flush mount ring for panel mounting.

Dimensions: mm (inch)

GAUGE SIZE	A	В	O	C1	D	E	F	G	н	7	K	L	М	N	0	J	KK
4½"	149	82	126	149	26	137	27	91	40	5	15	6	125	17	17	3	148
	(5 ⁷ %)	(3½)	(4 ¹⁵ / ₁₆)	(5 ⁷ / ₈)	(1½6)	(5%)	(1½6)	(3 [%] 16)	(1 [%] 16)	(¾16)	(19/32)	(7/32)	(4 ¹⁵ / ₁₆)	(²¹ / ₃₂)	(²¹ / ₃₂)	(½)	(5 ¹³ / ₁₆)

I/IDDATION_DECICTANT

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LIQUID-FILLED GAUGES

30 inHg to 10,000 psi

PGF Series



✓ Easy-to-Read 64 mm (2½") Dial

Superior Performance in Vibration, Pulsation, Shock Environments

✓ Leakproof O-Ring Seal

✓ Lower and Back Mounts

SPECIFICATIONS

Case: Stainless steel Wetted Parts: Brass/bronze Window: Polycarbonate with

O-ring seal

Fill Fluid: Glycerine **Temperature:** 66°C (150°F)

maximum

Fitting: ¼ NPT brass Accuracy: ±3-2-3%

PGF-25B-1000 back fitting shown smaller than actual size.

Liquid-Filled for Vibration Resistance



PGF-25L-400 lower fitting shown smaller than actual size.

49 mm (1.94")

> T SQ. FLATS

> > T SQ. FLATS

14 NPT

PGF-25B-300 back fitting shown smaller than actual size.

1000 og naller al size.

RangeTable

CODE psi	FIGURE INTERVAL	MINOR TICKS
15	1	0.5
30	5	0.5
60	5	1
100	10	1
200	20	5
300	30	5
400	50	10
600	50	10
1000	200	20
3000	500	100
5000	1000	100
10,000	1000	200
VACUUM		
30V inHa	5 inHg inches	0.5 inHg inches

Dimensions: mm (inch)

GAUGE	В	С	D	G	Н	Т	WEIGHT
Back	31 (1.21)	69 (2.71)	N/A	N/A	22 (0.88)	14 (0.56)	21 kg (0.47 lb)
Lower	31 (1.21)	69 (2.71)	12 (0.46)	56 (2.20)	N/A	14 (0.56	21 kg (0.47 lb)

To Order		
DIAL DIAMETER.	MODEL NO.	CONNECTION
64 mm (2½")	PGF-25B-[*]	Back
64 mm (2½")	PGF-25L-[*]	Lower

[*] Insert range from Range Table at left.

Ordering Examples: PGF-25B-100, back-mount gauge with a pressure range to 100 psi. PGF-25L-3000, lower-mount gauge with pressure range of 0 to 3000 psi.

INDICTDIAL DDACECC CALLEC Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

TYPES H AND J, 4½ AND 6" DIALS

PGH Series PGJ Series



✓ 0.5% FS Accuracy

✓ PGH Gauge Ranges from 15 to 20,000 psi

✓ Double-Strength **Shatter-Resistant** Glass

✓ Heavy-Duty 316 SS **Wetted Parts**

✓ Easily Adjustable, Self-Locking Micrometer Dial

✓ PTFE-Coated **SS Movement** for Long-Lasting Accuracy

Solid Front with **Blowout Back**

✓ Fully Temperature Compensated

SPECIFICATIONS

Dial Arc: 270°

Case: Lower connection, black phenol;

back connection, aluminum

Now *Hermetically*



PGH-45L-100, shown smaller than actual size, see dimensions on next page.

PGJ-45B-100, shown smaller than actual size.

EDM

Window: Double-strength glass Bourdon Tube: 316 SS Connection: ½ MNPT 316 SS Mounting: Stem, flush or surface

Operating Temperature: 121°C (250°F) maximum

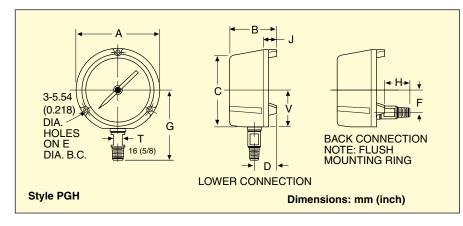
To Order									
DIAL									
DIA. (inch)	MODEL NO.	CONNECTION							
4½	PGH-45L-[*]	Lower							
4½	PGH-45B-[*]	Back							
FLUSH ALU	MINUM CASE								
4½	PGJ-45B-[*]	Back							
6	PGJ-60B-[*]	Back							
* Insert range co	de from table at right.								

Ordering Example: PGJ-45B-100, 41/2" 100 psi style PGJ gauge with a back connection. For silicone fill option, add suffix "-F" to model number for additional cost (available on PGH models only). For oxygen-service cleaning option, add suffix "-X6B" to model number for

STANDARD psi RANGES								
RANGE		FIGURE	MINOR					
CODE	RANGE	INTERVAL	GRAD.					
15	0/15	1	0.1					
30	0/30	5	0.2					
60	0/60	5	0.5					
100	0/100	10	1					
160	0/160	20	1					
200	0/200	20	2					
300	0/300	50	2					
400	0/400	50	5					
600	0/600	50	5					
800	0/800	100	10					
1000	0/1000	100	10					
1500	0/1500	200	10					
2000	0/2000	200	20					
3000	0/3000	500	20					
5000	0/5000	500	50					
10,000	0/10000	1000	100					
-	0/20000		200					
www.r	ometec	.it - info(@rome					

SPECIAL R COMPOUN					
		FIGURE INTI	ERVAL	MINOR GRAD	DUATION
RANGE CODE	RANGE	INCHES MERCURY	psi	INCHES MERCURY	psi
30V15	30 inHg/0/15 psi	5	3	0.5	0.2
30V30	30 inHg/0/30 psi	10	5	1	0.5
30V60	30 inHg/0/60 psi	10	10	1	1
30V100	30 inHg/0/100 psi	10	10	2	1
30V150	30 inHg/0/150 psi	10	20	5	2
30V300	30 inHg/0/300 psi	30	25	5	2

COMBINAT	COMBINATION									
	R	ANGE	FIGURE INTERVAL MINOR GRADUATION							
RANGE CODE	INNER SCALE psi	OUTER SCALE FT. WATER	psi	FEET WATER	psi	FEET WATER				
15/34	0/15	0/34	3	5	0.5	0.5				
30/70	0/30	0/70	5	10	0.5	1				
60/140	0/60	0/140	5	20	0.5	5				
100/230	0/100	0/230	10	20	1	2				
160/370	0/160	0/370	20	50	2	5				
200/480	0/200	0/480	20	50	5	5				
300/690	0/300	0/690	25	100	5	10				



Style PGH—Dimensions: mm (inch)

DIAL SIZE (inch)	A	В	С	D	Е	F	G ½ NPT	H MAX	J	V	WT kg (lb)
4½	148 (5 ¹³ / ₁₆)	86 (3¾)	129 (5½)	41 (15%)	137 (5¾)	41 (1 ⁵ %)	103 (4 ⁷ / ₁₆)	29 (1½)	24 (15/ ₁₆)	67 (2 ⁵ %)	1.6 (3½)

VACUUM RANGES								
RANGE CODE	RANGE	FIGURE INTERVAL	MINOR GRAD.					
30V	30/0 In. Merc.	5 inches	0.2 inch					
34V	34/0 Ft. Water	5 feet	0.5 foot					

Style PGJ—Dimensions: mm (inch)

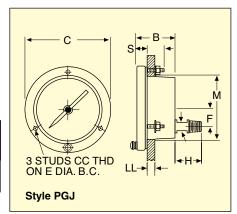
DIAL SIZE (inch)	В	С	E	F	H MAX	М	S	СС	LL	WT kg (lb)
4½	65	154 (6 ¹ / ₁₆)	137 (5 ³ %)	41 (1 ⁵ %)	48	124 (4 ⁷ / ₈)	16	#10-24	3-13	1.2 (2 ³ / ₄)
6	(2%16)	192 (7 ⁹ / ₁₆)	178 (7)	54 (2½)	(1 ⁷ / ₈)	165 (6½)	(%)	1/4-20	(1/8-1/2)	



PGJ-45B-100, shown smaller than actual size.



PGH-45L-100, shown smaller than actual size, see dimensions below.



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PGL Series



- ✓ Corrosion-Resistant **Bronze Diaphragm**
- ✓ 150% Overpressure **Protection**
- ✓ Recalibration Screw on Dial
- ✓ 2-1-2 ANSI Grade A Accuracy*

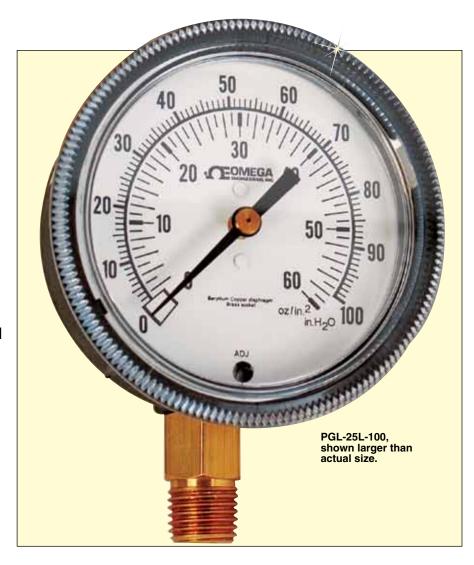
SPECIFICATIONS

Dial: 64 mm (2.5") Dia. Pointer: Black aluminum **Movement: Brass**

Element: Bronze diaphragm Connection: 1/4 NPT

Window: Polycarbonate

Media: Clean, dry, non-corrosive gas only



To Order							
	RANGE/GRADUATIONS						
			INNER S	CALE	OUTER S	CALE	
MODEL NO.	OUTER SCALE	INNER SCALE	FIG. INTERVALS	MINOR GRAD.	FIG INTERVALS	MINOR GRAD.	
PGL-25L-10	0/10 inH ₂ O	_	1	0.1	_	_	
PGL-25L-15	0/15 inH ₂ O	0/9 oz/in²	1	0.2	5	0.2	
PGL-25L-35	0/35 inH ₂ O	0/20 oz/in ²	5	0.5	5	0.5	
PGL-25L-60	0/60 inH ₂ O	0/35 oz/in ²	5	0.5	5	0.5	
PGL-25L-100	0/100 inH ₂ O	0/60 oz/in ²	10	1	10	1	
PGL-25L-160	0/160 inH ₂ O	_	20	2	_	_	
PGL-25L-200	0/200 inH ₂ O	_	20	2	_	_	
PGL-25L-300	0/300 inH ₂ O	_	50	5	_	_	

^{* 2%} first 10%, 1% middle 80%, 2% last 10%.

Note: Cannot be oxygen cleaned.

Ordering Example: PGL-25L-100, low-pressure gauge with 0 to 100 in H₂O range.

PRESSURE GAUGES LIQUID-FILLABLE

GAUGES

G

PGM Series

✓ Dual Scales in psi and bar

✓ 63 mm (2½") and 100 mm (4") Diameters

✓ Back- or Lower-Mount Fittings

✓ All Stainless Steel Construction

✓ Liquid Fillable in the Field

✓ NEMA 4 (IP65) Protection

✓ Heavy-Duty





PGM-63B-1000PSI/70BAR, with Back (Rear)-mount fitting, shown actual size.

PGM-100L-100PSI/7BAR, with lower (Bottom)-mount fitting, shown actual size.

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OMEGA's PGM Series gauges are suitable for corrosive processing environments in chemical, petrochemical refining, power, marine, food and pharmaceutical applications. The PGM Series comes in a 63 mm (2.5") or 100 mm (4") case, features all stainless steel construction, and is environmentally protected to NEMA 4 (IP65) standards.

The PGM Series can also be liquidfilled in the field. Liquid-filled pressure gauges provide users with a number of advantages in certain applications. They are ideal for equipment with excessive vibration and pulsation, such as pumps, compressors, and machine tools. The liquid fill minimizes the effects of these severe environments. protects the gauge internals, and provides continuous lubrication in the mechanism, adding up to extended service life. Liquid filling also provides greater protection of the gauge internals from corrosive atmospheres. Gauges can be filled with a variety of fluids, including glycerin, mineral oil, and silicone oil.



PGM-63B-1000PSI/70BAR, shown smaller than actual size.

SPECIFICATIONS

Accuracy: 63 mm ±1.6% of span, 100 mm ±1% of span (per DIN 16 005) Working Pressure: 75% of full scale

Overrange Protection: 130% of full scale

Ambient Temp Range: -40 to 60°C (-40 to 140°F)

Process Temp Range: -20 to 80°C

(-4 to 176°F)

Degree of Protection: NEMA 4 (IP65) Element: 316 SS

Window:

63 mm (2.5"): Polycarbonate 100 mm (4"): Laminated safety glass

Dial: White aluminum with

black lettering

Pointer: Aluminum alloy, black painted

Case and Bezel Ring: 304 SS

Movement: 304 SS

Pressure Connection: 316 SS, $\frac{1}{4}$ MNPT on 63 mm (2.5"), $\frac{1}{4}$ MNPT on 100 mm (4")

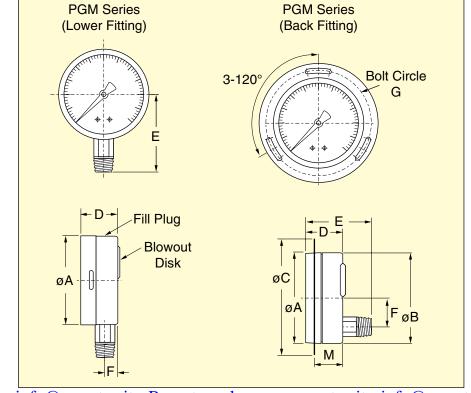
Blowout Protection:

63 mm (2.5"): Top-mounted

rubber disc

100 mm (4"): Back-mounted

rubber disc



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STANDARD RANGES					
RANGE CODE	INNER SCALE (psi)	OUTER SCALE (bar)			
30V/-1BAR	30 inHg vac to 0	-1 to 0			
30V15/-1/1BAR	30 inHg vac to 15	-1 to 1			
30V30/-1/2BAR	30 inHg vac to 30	-1 to 2			
30V60/-1/4BAR	30 inHg vac to 60	-1 to 4			
30V100/-1/7BAR	30 inHg vac to 100	-1 to 7			
30V150/-1/10BAR	30 inHg vac to 150	-1 to 10			
15PSI/1BAR	0 to 15	0 to 1			
30PSI/2BAR	0 to 30	0 to 2			
60PSI/4BAR	0 to 60	0 to 4			
100PSI/7BAR	0 to 100	0 to 7			
160PSI/11BAR	0 to 160	0 to 11			
200PSI/14BAR	0 to 200	0 to 14			
300PSI/20BAR	0 to 300	0 to 20			
400PSI/28BAR	0 to 400	0 to 28			
600PSI/40BAR	0 to 600	0 to 40			
800PSI/55BAR	0 to 800	0 to 55			
1000PSI/70BAR	0 to 1000	0 to 70			
1500PSI/100BAR	0 to 1500	0 to 100			
2000PSI/140BAR	0 to 2000	0 to 140			
2300PSI/160BAR	0 to 2300	0 to 160			
3000PSI/200BAR	0 to 3000	0 to 200			
3500PSI/250BAR	0 to 3500	0 to 250			
5000PSI/350BAR	0 to 5000	0 to 350			
6000PSI/400BAR	0 to 6000	0 to 400			
10000PSI/700BAR	0 to 10000	0 to 700			
11600PSI/800BAR	0 to 11600	0 to 800			



Dimensions: mm (inch)

DIAL SIZE	FITTING	A	В	С	D	E	F	G	M
63 mm (2½")	Lower mount	63.7 (2.51)	_	_	33.0 (1.30)	55.7 (2.19)	11.0 (0.44)	_	_
63 mm (2½")	Flange mount	63.7 (2.51)	66.2 (2.61)	86.0 (3.39)	33.0 (1.30)	57.0 (2.24)	13.0 (0.51)	75.0 (2.95)	28.0 (1.10)
100 mm (4")	Lower mount	101.3 (3.99)	_	_	50.0 (1.97)	83.0 (3.27)	29.0 (0.63)	_	_
100 mm (4")	Flange mount	101.3 (3.99)	103.1 (4.06)	131.0 (5.16)	50.0 (1.97)	83.0 (3.27)	29.0 (1.14)	116.0 (4.57)	45.0 (1.77)

PGM-63B-1000PSI/70BAR, with flange mount and back fitting, shown smaller than actual size.

To Order Visit ome	er Visit omega.com/pgm_series for Pricing and Details				
MODEL NO	DIAL SIZE mm (inch)	CONNECTION			
PGM-63L-[*]	63 (2½)	1/4 NPT lower			
PGM-63B-[*]	63 (21/2)	1/4 NPT back			
PGM-100L-[*]	100 (4)	½ NPT lower			
PGM-100B-[*]	100 (4)	1/2 NPT back			

^[*] Insert range code from Standard Ranges table.

Ordering Examples: PGM-63B-15PSI/1BAR, 63 mm (2.5") gauge with a back fitting and scaled 0 to 15 psi and 0 to 1 bar. PGM-100L-15PSI/1BAR, 100 mm (4") gauge with a lower fitting and scaled 0 to 15 psi and 0 to 1 bar.

TYPE P

PGP Series



- Durable and **Accurate Design**
- ✓ U-Clamp Mount
- ∠ 2½" Dials
- ✓ For Use in a Wide Variety of **Applications**

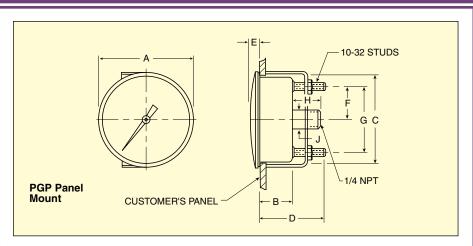
OMEGA® panel gauges use a U-clamp mounting system. The attractive blackpainted, steel-case gauges are designed for use on instrument panels, air conditioning equipment, air and gas dryers, machine tools, air compressors, pressure test stands, and a wide variety of other panel gauge applications. The panel gauges use the unique OMEGA® springsuspended movement. The entire movement is suspended between 2 springs, with the Bourdon tube above and the link below. Wearing parts have been reduced to a minimum.

Movement parts are ultrasonically cleaned and lubricated with silicone oil to ensure long cycle life. The OMEGA® spring-suspended movement is resistant to shock, pulsation, and vibration, thus contributing to longer gauge life.

OMEGA® panel gauges, with U-clamp mounting system, are durable and feature long-term life and stability. The attractive black steel-case gauges are designed for use in numerous panel gauge applications.

= 1/10 Welded AISI 316 tube &





Dimensions: mm (inch)

DIAL SIZE	A	В	С	D	E	F	G	Н	J
63.5	73	25	68	51	7	25	51	22	14 sq
(2½)	(2%)	(1)	(211/16)	(2)	(7/32)	(1)	(2)	(%)	(%6) sq

SPECIFICATIONS

Case: Painted steel

Window: Polycarbonate plastic

Bourdon Tube: Bronze Connection: Back Fitting: 1/4 NPT brass Dial Size: 21/2" Dia. Mounting: "U" bracket

Ranges: Vacuum through 400 psi

Accuracy: 3-2-3%

3% first 10%, 2% middle 80%, 3% last 10% Temperature: 66°C (150°F) maximum

Warning: To prevent misapplication, all gauge components should be chosen with an eye to the media and ambient operating conditions to which they will be subjected. Improper application can be detrimental to the gauge, causing failure and possible personal injury and property damage.

RANGE CODE	RANGE
30V	30/0 inHg vac
30V/15	30 inHg vac to 15 psi
30V/30	30 inHg vac to 30 psi
30V/60	30 inHg vac to 60 psi
30V/100	30 inHg vac to 100 psi
30V/300	30 inHg vac to 300 psi
15	0 to 15 psi
30	0 to 30 psi
60	0 to 60 psi
100	0 to 100 psi
160	0 to 160 psi
200	0 to 200 psi
300	0 to 300 psi
400	0 to 400 psi

DIAL SIZE	MODEL NO.	CONNECTION
2½"	PGP-25B-[*]	Back

^{*} Insert range code from table above.

Ordering Example: PGP-25B-100, pressure gauge, commercial panel type, U-clamp mount, $2\frac{1}{2}$ " dial, back connection, 0 to 100 psi range.

WITH DIAPHRAGM SEAL

PGR Series

- All-Welded Seal to Gauge **Design and Seamless Bourdon Tube Provide** Fewer Leak Paths than **Competitive Models**
- Liquid Fillable Gauge Case
- ✓ Tamper Resistant Design
- ✓ Compact Size to Fit **Applications with Space Constrants**

Applications

- Chemical and **Petrochemical Processing Plants**
- Petrochemical Refineries
- General Processing such as Food and **Pharmaceutical**

For high temperature applications up to 204°C (400°F) use with PG-CT2.



OMEGA's PGR Series All-welded gauge and seal offers customers a lower cost alternative to an individual gauge and diaphragm seal with the added advantage of a reduction in potential leaks. The wetted parts are 316L stainless steel. The process connection is a ½ NPT male bottom mount.

SPECIFICATIONS

Accuracy: ± 0.5% of span (grade 2A) Case Size: 114 mm (4.5") diameter Process Connection: ½ MNPT bottom

connection

Seal Upper Material: 316L

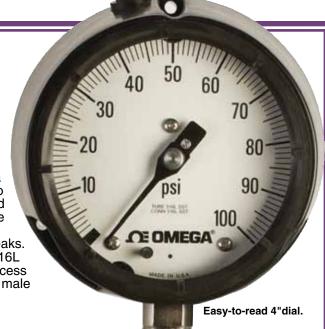
stainless steel

Diaphragm Material: 316L

stainless steel

System Fill Type: DC200

Operating Temperature: 143°C (225°F)



PGR-45LSS-100 shown smaller than actual size.

To Order	
PRESSURE RANGE	MODEL NO.
0 to 15 PSIG	PGR-45LSS-15
0 to 30 PSIG	PGR-45LSS-30
0 to 60 PSIG	PGR-45LSS-60
0 to 100 PSIG	PGR-45LSS-100
0 to 160 PSIG	PGR-45LSS-160
0 to 200 PSIG	PGR-45LSS-200
0 to 300 PSIG	PGR-45LSS-300
0 to 400 PSIG	PGR-45LSS-400
0 to 600 PSIG	PGR-45LSS-600
0 to 1000 PSIG	PGR-45LSS-1000
0 to 1500 PSIG	PGR-45LSS-1500
0 to 2000 PSIG	PGR-45LSS-2000
0 to 2300 PSIG	PGR-45LSS-2300
0 to 3000 PSIG	PGR-45LSS-3000

Ordering Example: PGR-45LSS-300, 114 mm (4.5") diameter pressure gauge with integral diaphragm seal, ½ NPT male bottom process connection, 316L stainless steel wetted parts, 0 to 300 psig pressure range.

TYPE S

PGS Series







RVICE GAUGE

PGS-35L-300, shown actual size.

✓ 63 and 89 mm (21/2 and 31/2") Dials

✓ Stem and Panel **Mount Styles**

✓ Weather-Resistant Stainless Steel Case

- ✓ 316 SS Wetted Parts
- ✓ 1% FS Accuracy

To combat hostile environments, this general service gauge is corrosion, weather, and dust resistant. Mounting versatility,

excellent readability, and sustained accuracy make this stainless steel design á gauge leader. It can be stem, surface, or flush mounted.

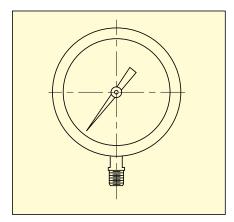
PGS-25L-160, shown

actual size.

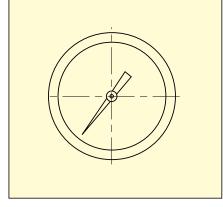
Sustained accuracy and excellent readability are especially important to users of the OMEGA® general service gauge line. Meeting the

requirements of many industrial applications, general service gauges can be used on steam boilers or other pressurized vessels; on pumps and compressors; on many types of industrial machinery; in the chemical, petrochemical, and allied process industries; in power plants; and in pulp and paper mills.

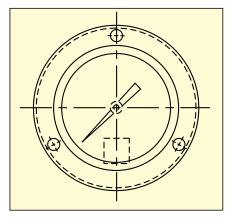
The pressure gauge actuation system in the OMEGA® general service gauge line is the standard 316 SS Bourdon tube system, which is engineered to precise tolerances for repeatability and consistent response to pressure fluctuations.



STYLE L

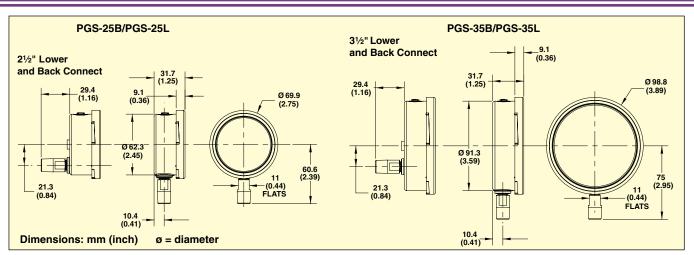


STYLE B



STYLE B With Flange Mounting Kit

TYPE S GENERAL SERVICE GAUGES



SPECIFICATIONS

Max Operating Temp: 66°C (150°F) Case: Polished stainless steel Window: Polycarbonate plastic with Neoprene sealing gasket

Bourdon Tube: 316 SS

Connection: Back or lower Fitting: 316 SS, ½ NPT

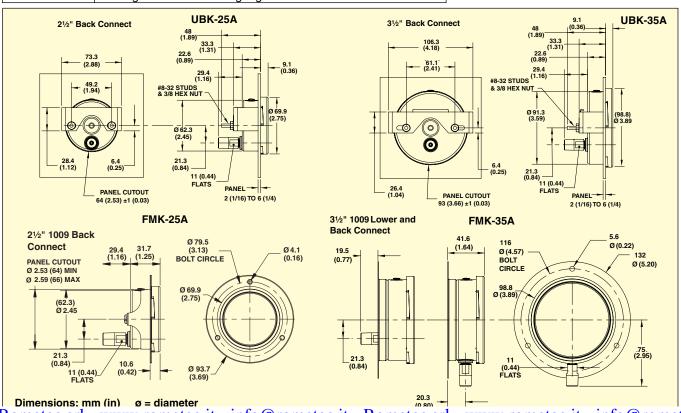
Dial Size: 63 and 89 mm (2½ and 3½") **Mounting:** Stem, flange or "U" bracket

Accuracy: 1% full scale

Warning: To prevent misapplication, all gauge components should be chosen with an eye to the media and ambient operating conditions to which they will be exposed. Improper application can be detrimental to the gauge, causing failure and possible personal injury and property damage.

ACCESSORIES FOR TYPE S GAUGES

MODEL NO.	DESCRIPTION
UBK-25A	U-bracket kit for 2½ gauge
UBK-35A	U-bracket kit for 3½ gauge
FMK-25A	Flange mount kit for 2½ gauge
FMK-35Δ	Flange mount kit for 3½ gauge



GENERAL SERVICE GAUGES

Standard Ranges—Type S Pressure (psi)



DIAL SIZE	MODEL NO.	CONNECTION
	PGS-25L-[*] (to 600 psi)	Lower
01/1	PGS-25L-[*] (over 600 psi)	Lower
2½"	PGS-25B-[*] (to 600 psi)	Back
	PGS-25B-[*] (over 600 psi)	Back
	PGS-35L-[*] (to 600 psi)	Lower
01/1	PGS-35L-[*] (over 600 psi)	Lower
3½"	PGS-35B-[*] (to 600 psi)	Back
	PGS-35B-[*] (over 600 psi)	Back

^{*} Insert range code from table below. Comes complete with operator's manual.

Option: "X6B", oxygen service cleaning.

Ordering Example: PGS-25B-160, pressure gauge, general service type, 2½" dial, back connection, 0/160 psi range.

Pressure Range: Select a gauge with a full scale pressure range of approximately twice the normal operating pressure. The maximum operating pressure should not exceed approximately 75% of the full scale range. Failure to select a gauge range within these criteria may ultimately result in fatigue failure of the Bourdon tube.

Oil-Filled Gauges Also Available:

Type S gauges are available on special order filled with silicone oil. The silicone oil is used to dampen the internal movement of the gauge when it is installed on vibrating equipment. The oil has an operating range of -40 to 66°C (-40 to 150°F). The maximum storage temperature of the gauge is 82°C (180°F).

To Order: Add suffix "F" to model number for an additional **cost** for 63 mm (2½") gauges or an additional **cost** for 89 mm (3½") gauges.



PGS-25L-160, shown smaller than actual size.

		FIGURE INTERV		MINOR GRADUATION	
RANGE CODE	RANGE	INCHES MERCURY	psi	INCHES MERCURY	psi
30V/15	30 inHg vac/0/15 psi	5	3	1	0.5
30V/30	30 inHg vac/0/30 psi	10	5	1	1
30V/60	30 inHg vac/0/60 psi	10	10	2	1
30V/100	30 inHg vac/0/100 psi	10	10	2	1
30V/150	30 inHg vac/0/150 psi	10	20	5	2
30V/300	30 inHg vac/0/300 psi	30	25	5	5

Note: For Type S gauges with oxygen cleaning, gauge fill must be Halocarbon, for additional cost. **Ordering Example:** PGS-25B-60-F, pressure gauge, general service type, 63 mm (2½") dial, 0/60 psi range, silicone oil filled.

30 20 10	SEPPOR CAUCE	70 80 www.yww.gov.
PGS-25L-100, shown smaller	100 M ma 1	

than actual size.

RANGE CODE	RANGE	FIGURE	MINOR GRADUATION
CODE	NANGE	INTERVAL	GRADUATION
15	0/15	1	0.2
30	0/30	5	0.5
60	0/60	5	1
100	0/100	10	1
160	0/160	20	2
200	0/200	20	2
300	0/300	30	5
400	0/400	50	6
600	0/600	50	10
800	0/800	100	10
1000	0/1000	100	10
1500	0/1500	200	20
2000	0/2000	200	20
3000	0/3000	300	50
5000	0/5000	500	50
6000	0/6000	1000	100
7500	0/7500	1000	100
10,000	0/10,000	1000	100
VACUU	M		
30V	30 to 0 inHg	5 inHg	0.5 inHg

76 mm (3") DIAL AND STAINLESS STEEL CASE





✓ 0.5% FS Accuracy

✓ Ideal "Tool Box" **Test Gauge**

✓ All Stainless Steel Construction

SPECIFICATIONS

Accuracy: 0.5% FS

Case: Polished stainless steel Dial: White background with

mirrored band

Pointer: Adjustable with

knife-edge tip

Movement: Stainless steel Element: 316 Stainless steel

Connection: 1/4 NPT



To Order	To Order							
	DIAL DIA.		GRADUATIONS FIGURE					
MODEL NO.	mm (inch)	RANGE	MAJOR	MINOR				
PGT-30L-15	76 (3)	0 to 15	1	0.1				
PGT-30L-30	76 (3)	0 to 30	2	0.2				
PGT-30L-60	76 (3)	0 to 60	5	0.5				
PGT-30L-100	76 (3)	0 to 100	10	1				
PGT-30L-150	76 (3)	0 to 150	10	1				
PGT-30L-200	76 (3)	0 to 200	20	2				
PGT-30L-300	76 (3)	0 to 300	20	2				
PGT-30L-400	76 (3)	0 to 400	50	2				
PGT-30L-600	76 (3)	0 to 600	50	5				
PGT-30L-1000	76 (3)	0 to 1000	100	10				

Ordering Examples: PGT-30L-100, pocket test gauge with 0 to 100 psi range, and stainless steel cover. PGT-30L-300, pocket test gauge with 0 to 300 psi range, and stainless steel cover.

I NIM_DDECCIDE NIADUDACAA CALICEC Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it

PGL Series



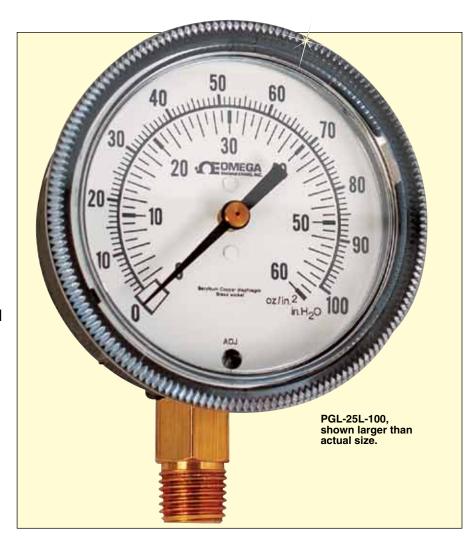
- ✓ Corrosion-Resistant **Bronze Diaphragm**
- ✓ 150% Overpressure **Protection**
- ✓ Recalibration Screw on Dial
- ✓ 2-1-2 ANSI Grade A Accuracy*

SPECIFICATIONS

Dial: 64 mm (2.5") Dia. Pointer: Black aluminum **Movement: Brass**

Element: Bronze diaphragm Connection: 1/4 NPT Window: Polycarbonate

Media: Clean, dry, non-corrosive gas only



To Order										
		RANGE/GRADUATIONS								
			INNER	SCALE	OUTER :	SCALE				
MODEL NO.	OUTER SCALE	INNER SCALE	FIG. INTERVALS	MINOR GRAD.	FIG INTERVALS	MINOR GRAD.				
PGL-25L-10	0/10 inH₂O	_	1	0.1	_	_				
PGL-25L-15	0/15 inH ₂ O	0/9 oz/in ²	1	0.2	5	0.2				
PGL-25L-35	0/35 inH ₂ O	0/20 oz/in ²	5	0.5	5	0.5				
PGL-25L-60	0/60 inH ₂ O	0/35 oz/in ²	5	0.5	5	0.5				
PGL-25L-100	0/100 inH ₂ O	0/60 oz/in ²	10	1	10	1				
PGL-25L-160	0/160 inH ₂ O	_	20	2	_	_				
PGL-25L-200	0/200 inH ₂ O	_	20	2	_	_				
PGL-25L-300	0/300 inH ₂ O	_	50	5	_	_				

^{* 2%} first 10%, 1% middle 80%, 2% last 10%.

Note: Cannot be oxygen cleaned.

Ordering Example: PGL-25L-100, low-pressure gauge with 0 to 100 in H₂O range.

HIGH ACCURACY AND MONEL® WETTED PARTS 4½, 6, 8½" DIALS

PGT Series





Stem and Panel Mount

Mirrored Scale

✓ Monel® Wetted Parts

✓ 4½, 6, or 8½" Dials

The OMEGA® test gauge line consists of highly accurate gauges designed for use in instrument shops, plants of all types, and laboratories throughout industry. Most models provide sustained accuracy to 0.25% full scale. Performance, reliability, and precision measurement are coupled with consistency in meeting the demanding service needs of numerous test gauge applications.

OMEGA® test gauges are used as master reference gauges, in test stand measurements, for production inspection, and for verifying the accuracy of general service gauges. The gauge dial has a stainless steel mirror ring for pointer reflection, which prevents parallax error. This mirror surface reflects the pointer in any position and allows the gauge to be read with great accuracy. The lightweight, frictionadjustable balanced pointer with knife-edge tip ensures reading to the smallest subdivision. The accented dial graduations have a true width equivalent to 0.25% tolerance for quick and accurate aauae checkina.





GAUGE TEST

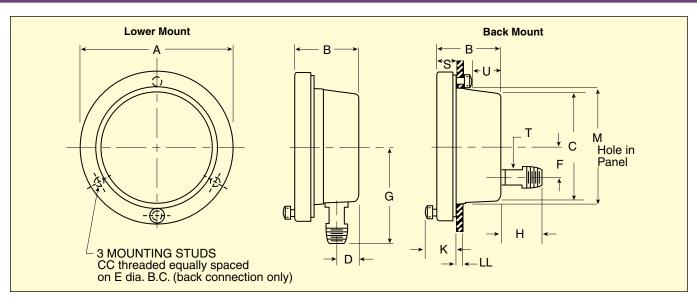
PGT-60B-100, back mount, shown smaller than actual size. See next page for dimensions.

Warning: To prevent misapplication, all gauge components should be chosen with an eye to the media and ambient operating conditions to which they will be exposed. Improper application can be detrimental to the gauge, causing failure and possible personal injury and property damage.



PGT-45L-100, stem or flush mount, shown smaller than actual size. See next page for dimensions.

TEST GAUGES—HIGH ACCURACY WITH MONEL® WETTED PARTS



Dimensions: mm (inch)

DIAL SIZE	A	В	С	D	Е	F	G	Н	K	М	S&T	U	СС	LL
4½"	155 (6 ³ / ₃₂)	73 (2 ⁷ / ₈)	121 (4¾)	30 (1¾6)	137 (5%)	41 (1%)	100 (3 ¹⁵ / ₁₆)	35 (1%)	34 (1 ¹¹ / ₃₂)	124 (4 ⁷ / ₈)	16 (5/8)	19 (¾)	10-24	3 to 13 (1/8 to 1/2)
6"	192 (7 [%] 16)	73 (2 ⁷ / ₈)	121 (4¾)	30 (1 ³ ⁄16)	178 (7)	41 (1%)	114 (4 ⁹ / ₁₀)	35 (1%)	34 (1 ¹¹ / ₃₂)	165 (6½)	16 (5%)	19 (¾)	1/4-20	3 to 13 (1/8 to 1/2)
8½"	257 (10½6)	73 (2 ⁷ / ₈)	121 (4¾)	30 (1¾ ₆)	244 (95%)	41 (1%)	152 (6)	35 (1%)	34 (1 ¹¹ / ₃₂)	229 (9)	16 (5%)	19 (¾)	1/4-20	3 to 13 (1/8 to 1/2)

SPECIFICATIONS

Case: Solid aluminum with epoxy-

coated black finish Window: Glass

Movement: Stainless steel Bourdon Tube: Monel Connection: Monel Fitting: ½ NPT

Dial: Externally adjustable, aluminum, white background, black graduations

and polished mirror band

Mounting:

Stem: Lower connection
Panel or Stem: Back connection

Accuracy: 0.25% full scale

Ring:

Lower Connection Model:

Threaded aluminum

Back Connection Model: Mounting flange, hinged cover ring secured by

knurled screw

Safety Features: Solid front with pressure

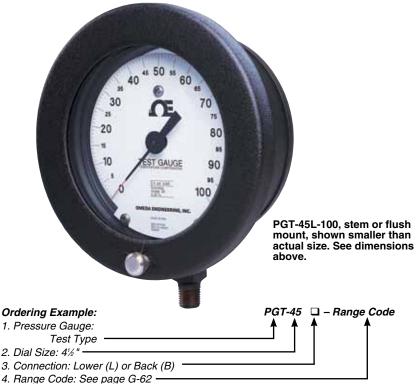
relief back

Media Temperature: 66°C (150°F) [models will withstand continuous temperature up to 177°C (350°F), but there

will be discoloration of case and dial face]

Temperature Compensation:

0.005% FS/°F



HOW TO ORDER TYPE T TEST GAUGES

DIAL DIA.	MODEL NO.	CONNECTION
41/2	PGT-45L-[*]	Lower
4 1/2	PGT-45B-[*]	Back
6	PGT-60L-[*]	Lower
6	PGT-60B-[*]	Back
8½	PGT-85L-[*]	Lower
072	PGT-85B-[*]	Back

[*] Insert range code from table below. To order cleaned for oxygen service, add suffix "-X6B" to model number for additional cost Note: Precision test gauges cannot be oil filled. Ordering Example: PGT-45B-300, test gauge with 4½" dial, back connection, 0 to 300 psi range.

Standard psi Ranges

Type T

		FIGURE	4½" DIAL	6" DIAL	4½" DIAL
RANGE CODE	RANGE	& TAB INTERVAL	MINOR GRAD	MINOR GRAD	MINOR GRAD
15	0/15	1	0.05	0.05	0.02
30	0/30	2.5	0.1	0.1	0.05
60	0/60	5	0.2	0.1	0.1
100	0/100	5	0.5	0.2	0.2
150	0/150	10	0.5	0.5	0.2
200	0/200	10	0.5	0.5	0.5
300	0/300	25	1	1	0.5
400	0/400	25	1	1	1
600	0/600	50	2	2	1
800	0/800	50	2	2	2
1000	0/1000	50	5	2	2
1500	0/1500	100	5	5	2
2000	0/2000	100	10	5	5
3000	0/3000	250	10	10	5
5000	0/5000	500	20	10	10
10,000	0/10,000	500	50	20	20
VACUUM					
30V	30/0" Hg	2.5	0.1	0.1	0.05

CO	N/A	$\boldsymbol{\cap}$	П	м	\mathbf{n}
	IWI	U	u	INI	W.

	RANGE			4½" C	IAL	6" C	IAL	8½"	DIAL
RANGE CODE	INCHES MERCURY psi	FIGI inHg	JRE psi	MINOR inHg	GRAD psi	MINOR inHg	GRAD psi	MINOF inHg	GRAD psi
30V/15	30 inHg Vac/0/15 psi	5	3	0.2	0.1	0.2	0.1	0.1	0.05
30V/30	30 inHg Vac/0/30 psi	5	5	0.5	0.2	0.2	0.1	0.2	0.1
30V/60	30 inHg Vac/0/60 psi	5	5	0.5	0.2	0.5	0.2	0.5	0.2
30V/100	30 inHg Vac/0/100 psi	10	5	1	0.5	0.5	0.5	0.5	0.2
30V/150	30 inHg Vac/0/150 psi	10	10	1	0.5	1	0.5	0.5	0.5
30V/200	30 inHg Vac/0/200 psi	30	20	2	1	1	0.5	1	0.5
30V/300	30 inHg Vac/0/300 psi	30	20	2	1	2	1	1	0.5
30V/400	30 inHg Vac/0/400 psi	30	20	5	2	2	1	2	1

See the following page for custom and metric ranges.

ACCESSORIES

ACCESSORIES						
MODEL NO.	DESCRIPTION					
EI-CAL-3-PRESSURE	NIST-traceable calibration					
PGT-CC Universal carrying case for all size test gauges						

60 30 70 20 100

> PGT-45L-100, stem or flush mount, shown smaller than actual size. See dimensions on page G-61.



PGT-45B-100, back mount, shown smaller than actual size. See dimensions on page G-61.

SPECIAL METRIC RANGES FOR TYPE S AND TYPE T GAUGES **AVAILABLE ONLINE**

TYPE S RANGE DIAL GRADUATIONS		UATIONS	RANGE	DIAL GRADU	ATIONS	OUTER SCALE		
kg/cm²	bar	FIGURE INTERVAL	MINOR GRADUATION	kPa	FIGURE MINOR INTERVAL GRADUATION		WHEN DUAL RANGE SPECIFIED (psi)	
PRESSURE								
0/1	0/1	0.1	0.01	0/100	10	1	0/14	
0/1.6	0/1.6	0.2	0.02	0/160	20	2	0/22	
0/2.5	0/2.5	0.5	0.05	0/250	50	5	0/35	
0/4	0/4	0.5	0.05	0/400	50	5	0/55	
0/6	0/6	0.5	0.1	0/600	50	10	0/85	
0/10	0/10	1	0.1	0/1000	100	10	0/140	
0/16	0/16	2	0.2	0/1600	200	20	0/220	
0/25	0/25	5	0.5	0/2500	500	50	0/350	
0/40	0/40	5	0.5	0/4000	500	50	0/550	
0/60	0/60	5	1	0/6000	500	100	0/850	
0/100	0/100	10	1	0/10,000	1000	100	0/1400	
0/160	0/160	20	2	0/16,000	2000	200	0/2200	
0/250	0/250	50	5	0/25,000	5000	200	0/3500	
0/400	0/400	50	5	0/40,000	5000	500	0/5500	
0/600	0/600	50	10	0/60,000	5000	500	0/8500	
0/1000	0/1000	100	10	0/100,000	10,000	1000	0/14,000	
VACUUM								
-1/0	-1/0	0.1	0.01	- 100/0 kPa	10	1	30/0 inHg	
COMPOUND								
-1/0/1.5	-1/0/1.5	0.5	0.05	- 100/0/150 kPa	50	5	30 inHg/0/20	
-1/0/3	-1/0/3	0.5	0.05	- 100/0/300 kPa	50	5	30 inHg/0/40	
-1/0/5	-1/0/5	0.5	0.1	- 100/0/500 kPa	50	10	30 inHg/0/70	
-1/0/9	-1/0/9	1	0.1	- 100/0/900 kPa	100	10	30 inHg/0/125	
				- 100/01500 kPa	200	0	30 inHg/0/215	

TYPE T RANGE kg/cm² bar kPa **PRESSURE** 0/100 0/1 0/1 0/1.6 0/1.6 0/160 0/2.5 0/2.5 0/250 0/400 0/4 0/4 0/6 0/6 0/600 0/10 0/10 0/1000 0/16 0/16 0/1600 0/25 0/25 0/2500 0/40 0/40 0/4000 0/60 0/60 0/6000 0/100 0/100 0/10,000 0/160 0/160 0/16,000 0/250 0/250 0/25,000 0/400 0/400 0/40,000 0/600 0/600 0/60,000 **VACUUM** -100/0 -1/0 -1/0 COMPOUND -1/0/1.5 -1/0/1.5 -100/0/150 -1/0/3 -1/0/3 -100/0/300 -1/0/5 -1/0/5 -100/0/500 -1/0/9 -1/0/9 -100/0/900

PGT-45L-100, shown smaller than actual size.



CE OMEGA

PGS-25L-150, shown smaller than actual size.

Ordering Special Ranges:

Type S and Type T custom dials are available to fulfill the varying needs of our customers. There is an additional setup fee and a 5-piece minimum order ner customized dial

All other ranges

CII IPAN AN CADDUIDE DDECCIIDE TDANCMITTED

WITH OPTIONAL LOOP POWERED PRESSURE MONITOR

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PX4200 Series

- ✓ Silicon on Sapphire Construction
- High Operating **Temperature**
- ✓ Titanium Wetted Parts
- ✓ 0.25% Accuracy
- Optional Plug-On Display with Available Set-point
- ✓ IP65 Enclosure

OMEGA's PX4200 Series Transmitters bring state-of-the-art Silicon-on-Sapphire (SOS) sensor technology to the industrial arena. SOS construction uses very stable solid state silicon strain gages on a Sapphire carrier which is glass bonded to a titanium diaphragm. This combination provides a very durable transducer which has excellent stability and corrosion resistance over a wide temperature range. A loop powered 3½ digit (-1999 to 1999) plug-on display adds versatility to the PX4200 by providing local display plus an available open collector set-point with 60 mA capability.

SPECIFICATIONS

Excitation: 13 to 36 Vdc with PM1000 18 to 36 Vdc reverse polarity protected Load Driving Capacity: 1150Ω @ 36 Vdc, R maximum = (Vs-13)/20 with PM1000 R maximum = (Vs-18)/20 Output: 4 to 20 mA (2-Wire) with zero and span adjustments

Accuracy: ±0.25% full scale includes

linearity, and hysteresis

Repeatability: ±0.1% full scale Long Term Stability (1yr): ±0.2% full scale

Media Temperature: -50 to 120°C (-58 to 248°F) **Ambient Temperature:** -40 to 80°C (-40 to 175°F) Thermal Zero Effect:

 $<\pm0.016\%$ full scale/°F Thermal Span Effect: <±0.016% full scale/°F

Humidity: 95% RH non-condensing

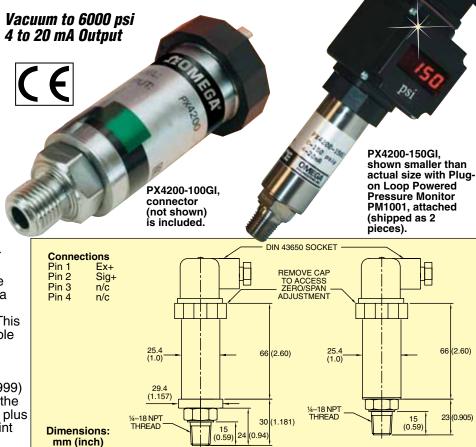
Maximum Overpressure:

200% full scale

Sensor: Silicon on Sapphire Wetted Parts: Titanium

Case Material: Stainless Steel, IP65 Pressure Port: 1/4 NPT male Electrical Connection: DIN 43650 plug mating connector supplied **Response Time:** 10 ms

Weight: 90 g (3.2 oz)



For range 0 to 5 psi

To Order		
RANGE (psig)	MODEL NO.	COMPATIBLE METERS*
30 inHg to 0	PX4200-30VACI	DP41-E, DP25B-E, PM1000
0 inHg to 30	PX4200-30VACRI	DP41-E, DP25B-E, PM1000
0 to 5	PX4200-005GI	DP41-E, DP25B-E, PM1000
0 to 10	PX4200-010GI	DP41-E, DP25B-E, PM1000
0 to 15	PX4200-015GI	DP41-E, DP25B-E, PM1000
0 to 30	PX4200-030GI	DP41-E, DP25B-E, PM1000
0 to 60	PX4200-060GI	DP41-E, DP25B-E, PM1000
0 to 100	PX4200-100GI	DP41-E, DP25B-E, PM1000
0 to 150	PX4200-150GI	DP41-E, DP25B-E, PM1000
0 to 200	PX4200-200GI	DP41-E, DP25B-E, PM1000
0 to 300	PX4200-300GI	DP41-E, DP25B-E, PM1000
0 to 600	PX4200-600GI	DP41-E, DP25B-E, PM1000
0 to 1K	PX4200-1KGI	DP41-E, DP25B-E, PM1000
0 to 1.5K	PX4200-1.5KGI	DP41-E, DP25B-E, PM1000
0 to 3K	PX4200-3KGI	DP41-E, DP25B-E, DP24-E
0 to 6K	PX4200-6KGI	DP41-E, DP25B-E, DP24-E
PRESSURE MO	ONITOR	
	PM1000	Plug-on display
	PM1001	Plug-on display with single set-point

Visit us online for compatible meters. Comes complete with operator's manual.

Ordering Example: PX4200-100GI, 0 to 100 psig range with a 4 to 20 mA current output, and PM1001 display with set-point.

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IN NEMA 4X (IP66) ENCLOSURES

Vacuum to 3000 psi

PSW-100 Series



- ✓ Ranges from 0.5 inH₂O to 3000 psi
- ✓ SPDT or DPDT Switches
- Adjustment Lock
- ✓ Safe, Easy Wiring Access

OMEGA's affordable, general purpose pressure switches offer distinct advantages over most similar-style switches, including DPDT or adjustable deadband switches, as well as a wide selection of adjustable ranges from $0.5 \text{ inH}_2\text{O}$ to 3000 psi.

SPECIFICATIONS

Approval: UL listed

Storage Temperature: -55 to 70°C

(-67 to 158°F)

Process Temperature:

Stainless Steel:

-55 to 205°C (-67 to 401°F) **Phosphor Bronze:**

-40 to 150°C (-40 to 302°F) **Buna-N:** -25 to 95°C (-13 to 203°F)

Ambient Temperature: -40 to 70°C (-40 to 158°F), except models PSW-107 to PSW-117 and PSW-134 to PSW-139:

-20 to 70°C (-4 to 158°F);

setpoint typically shifts less than 1% of range for a 30°C (54°F) ambient

temperature change

Shock: Setpoint repeats after 15 g,

10 ms duration

Vibration: Setpoint repeats after 2.5 g,

5 to 500 Hz

Setpoint Repeatability: All models ±1% of adjustable range, except models PSW-118 to PSW-125 and PSW-132 to

PSW-133, which are ±1.5%

Switch Output: One SPDT or DPDT switch can be wired "normally open"

or "normally closed"

Electrical Rating: Standard 15 A 125/250/480 Vac resistive External Manual Reset: 15 A

125/250 Vac resistive

Double Pole Double Throw: 10 A 125/250 Vac resistive

Enclosure: Die-cast aluminum (max 0.6% copper); epoxy-coated blue enclosure, gasketed, complies with NEMA 4X (IP66)

Weight: Approximately

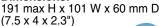
0.9 kg (2 lb)

Electrical Connection: 1/2 NPT and two 1/8" diameter knockouts

Pressure Connection:

See "To Order" on next page

Dimensions:



Cover





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Resistant

Setpoint

GENERAL PURPOSE PRESSURE SWITCHES

To Order						
	ADJUSTABLE RANGE					
MODEL NO.	STANDARD	METRIC	DEADBAND STANDARD UNITS	PROOF PRESSURE	SWITCH	ADDED FEATURE
BUNA-N DIAPHRAGM, O-RING AND ¼ FNPT NICKEL-PLATED BRASS PRESSURE CONNECTION						
PSW-107	1.5 to 30 psi	0.1 to 2 bar	1 to 2 psi	600 psi	15 A SPDT	_
PSW-108	3 to 100 psi	0.2 to 6.9 bar	1 to 4 psi	600 psi	15 A SPDT	_
PSW-109	3 to 100 psi	0.2 to 6.9 bar		600 psi	15 A SPDT	External Manual Reset
PSW-110	3 to 100 psi	0.2 to 6.9 bar	11.3 Typ.	600 psi	10 A DPDT	DPDT Switch
PSW-111	3 to 100 psi	0.2 to 6.9 bar	3 to 7 psi	600 psi	15 A SPDT	Adjustable Deadband
PSW-112	9 to 300 psi	0.7 to 20.7 bar	1 to 5 psi	600 psi	15 A SPDT	_
PSW-113	9 to 300 psi	0.7 to 20.7 bar	4 to 11 psi	600 psi	15 A SPDT	Adjustable Deadband
PSW-114	15 to 500 psi	1 to 34.5 bar	2 to 8 psi	2500 psi	15 A SPDT	_
PSW-115	15 to 500 psi	1 to 34.5 bar	5 to 12 psi	2500 psi	15 A SPDT	Adjustable Deadband
PSW-116	15 to 500 psi	1 to 34.5 bar	_	2500 psi	15 A SPDT	External Manual Reset
PSW-117	30 to 1000 psi	2 to 69 bar	3 to 20 psi	2500 psi	15 A SPDT	_
		D ½ FNPT ALUMINUM PF	RESSURE CONNEC	·		
PSW-134	300 inWC vac to 0 inWC	747.24 to 0 mbar	0.2 to 8 inWC	100 psi	15 A SPDT	_
PSW-135	10 inWC vac to 10 inWC	-24.91 to 24.91 mbar	0.1 to 0.6 inWC	100 psi	15 A SPDT	
PSW-136	50 inWC vac to 50 inWC	-124.54 to 124.54 mbar	0.1 to 3.0 inWC	100 psi	15 A SPDT	_
PSW-137	0.5 to 5 inWC	1.25 to 12.45 mbar	0.1 to 0.3 inWC	100 psi	15 A SPDT	_
PSW-138	2.5 to 50 inWC	6.23 to 124.54 mbar	0.1 to 0.8 inWC	100 psi	15 A SPDT	
PSW-139	10 to 250 inWC	24.91 to 622.70 mbar	0.1 to 6.0 inWC	100 psi	15 A SPDT	_
		PRESSURE CONNECTION		500 mai	15 A CDDT	
PSW-104 PSW-105	1 to 20 psi 2 to 50 psi	70 mbar to 1.4 bar 140 mbar to 3.4 bar	0.1 to 1 psi	500 psi	15 A SPDT 15 A SPDT	_
PSW-103	5 to 30 psi	0.4 to 2 bar	0.1 to 1.5 psi 1 to 3 psi	500 psi 2500 psi	15 A SPDT	_
PSW-120	10 to 100 psi	0.7 to 6.9 bar	1 to 8 psi	2500 psi	15 A SPDT	_
PSW-121	15 to 300 psi	1 to 20.7 bar	3 to 18. psi	2500 psi	15 A SPDT	
PSW-123	15 to 300 psi	1 to 20.7 bar	3 to 18 psi	2500 psi	15 A SPDT	Adjustable Deadband
PSW-124	20 to 500 psi	1.4 to 34.5 bar	4 to 30 psi	2500 psi	15 A SPDT	_
PSW-125	80 to 1700 psi	5.5 to 117 bar	5 to 120 psi	2500 psi	15 A SPDT	_
PHOSPHOR BRONZE BELLOWS AND ¼ FNPT BRASS PRESSURE CONNECTION						
PSW-127	30 inHg vac to 0	-1 to 0 bar	1 to 2 inHg	0 psi	15 A SPDT	_
PSW-128	30 inHg vac to 0	-1 to 0 bar	3 to 6.5 inHg	0 psi	10 A DPDT	DPDT Switch
PSW-129	4 to 200 psi	0.3 to 13.7 bar	1 to 4 psi	250 psi	15 A SPDT	_
		ESSURE CONNECTION				
PSW-130	15 to 200 psi	1 to 13.7 bar	1 to 3 psi	250 psi	15 A SPDT	
PSW-131	25 to 500 psi	1.8 to 34.5 bar	1.5 to 5 psi	575 psi	15 A SPDT	
PSW-132	100 to 1700 psi	6.9 to 11.7 bar	9 to 40 psi	2500 psi	15 A SPDT	
		ND ¼ FNPT SS PRESSUF		10000	45 4 000	
PSW-133	125 to 3000 psi	8.6 to 206 bar	40 to 250 psi	10000 psi	15 A SPDT	

^{*} Note: The use of metallic diaphragms where higher pressures, shock or heavy cycling is expected should be avoided. When choosing a pressure range, it is recommended that the switch operate in the middle 80% of its adjustable range. Switching may not be accurate in the lower and upper 10% of the range.

Switches come complete with operator's manual.

Ordering Example: PSW-115, Buna-N diaphragm, ¼ brass FNPT thread, range of 50 to 500 psi and adjustable deadband.

Digital, Miniature Pressure Switch with Display

- Compact, 1" cube that fits practically anywhere
- 8 selectable pressure units
- Two fully-programmable PNP digital outputs
- Bright, multi-colored, 4-digit display and LED indicators for high readability
- Two pressure port locations one horizontal and one vertical
 - for easy installation



a **spectris** company

Overview

These miniature pressure switches provide PNP output switch control for non-corrosive gasses. The PSW-1110 features a bright 4-digit, 7-segment, programmable display that makes it easy to see the current pressure.

The ultra-compact size and multiple pressure port orientations make this unit easy to install practically anywhere. There are both a horizontally and vertically oriented pressure ports.

The PNP outputs are fully programmable, and the user can also select one of eight pressure units: psi, bar, kg/cm2, KPa, MPa, inHg, cmHg, and Atm. There are four options for output modes. The main options are hysteresis and window modes, and each of those have high and low methods of actuation.

The PSW-1110 is also available with the following options: additional pressure ranges, NPN outputs, alternate pressure port thread types, and with liquid media compatibility. Contact us if you would like to learn more about these options.

Specifications

Accuracy	± 1% FS		
Repeatability	± 1% FS		
Response Time	135 ms		
Burst Pressure	300 psi		
Compatible Media	Non-Corrosive Gasses		
Supply Voltage	10-30 Vdc		
Electrical Connection	20" Cable with Flying Leads		
Current Consumption	≤80 mA		
Output	PNP		
Media Temperature Range	0 to 100°C (32 to 212°F)		
Temperature Accuracy	± 2°C (± 4°F)		
Operating Temperature	-10 to 60°C (14 to 140°F)		
Storage Temperature	-20 to 70°C (-4 to 158°F)		
Operating & Storage			
Humidity	35 to 85% RH		
Process Connection Material	Zinc Alloy		
Enclosure Materials	ABS		
Weight	80g		
Shock	100g (980 m/s²)		
Acceleration	10g (98 m/s²)		
	10 to 500 Hz freq., 0.06"		
Vibration	(1.5 mm) amplitude		

Digital, Miniature Pressure Switch with Display

Operation Modes

There are two main types of output modes for the digital output - hysteresis mode and windowed mode.

Hysteresis mode has two types of actuations, active low and active high, as shown on the left side of the Output Modes figure below.

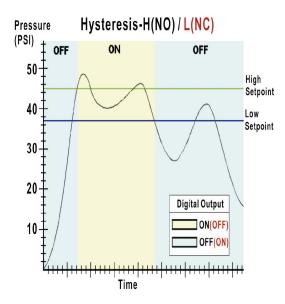
Active Low: Turns the output off when the pressure has reached the high setpoint (green line). The output remains off until the pressure has dropped below the low setpoint (blue line).

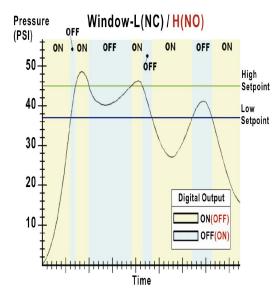
Active High: Turns the output on when the pressure has reached the high setpoint. The output remains on until the pressure has dropped below the low setpoint.

Windowed mode also has two types of actuations, active low and active high, as shown on the right side of the Output Modes figure below.

Active Low: Turns the output off when the pressure is between the high setpoint (green line) and the pressure low setpoint (blue line).

Active High: Turns the output on when the pressure is between the high setpoint (green line) and the pressure low setpoint (blue line).





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Digital, Miniature Pressure Switch with Display

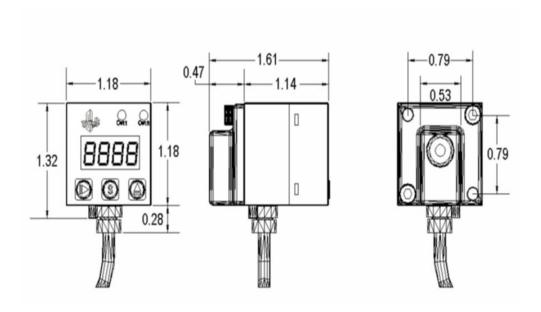
Accessories

Our product accessories section contains a selection of mounting accessories. Vertical or horizontal brackets are available, made for easy mounting to another surface; the sensor has two threaded mounting holes on the back side that either bracket screws into. Panel mounts are also offered and suitable for a wide range for the panel cutout due to spring loaded clips molded into the housing.

Additional Options

The PSW-1110 is also available with the following options: additional pressure ranges, NPN outputs, alternate pressure port thread types, and with liquid media compatibility. If you would like to learn more about these options or require further customization of this design, contact us using the chat function or by emailing us at pressure@omega.com.

Dimensional Drawing



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FOR CLASS 1 HAZARDOUS LOCATIONS

8 to 6000 psi

PSW12 Series



- Compact Stainless Steel Construction
- ✓ Belleville Technology for Long Life, Vibration Resistance, and Stability
- Easy Field Setting and Adjustment
- ✓ SPDT Sealed Switches
- Strain Relief
- ✓ 1.8 m (72") Lead Wires
- ✓ Mounting Bracket for Retrofit Applications

OMEGA'S PSW12 offers reliability, repeatability, and durability in a compact design. This switch is rack mountable and has an accessible adjustment when installed. Snapaction Belleville spring design contributes to a long, stable life and to vibration resistance. An optional mounting bracket provides easy retrofit, and an optional cover lock adds security. Ranges are from 8 to 6000 psi (0.6 to 414 bar).

SPECIFICATIONS

Approval: UL listed, cUL certified; Class I, Groups A, B, C, and D; Class II, Groups E, F, and G; Class III Storage Temperature: -50 to 80°C

(-58 to 176°F)

Process Temperature:

Stainless Steel Diaphragm: -17 to 160°C (0 to 320°F)

Polyimide Diaphragm: -28 to 93°C

(-20 to 200°F)

Ambient Temperature: -50 to 80°C (-58 to 176°F); setpoint typically shifts less than 1% of range for a 28°C (50°F) ambient temperature change.

Shock: Setpoint repeats after 75 g,

10 ms duration

Rugged Design Setpoint adjustment with cover PSW12T-BS, shown open (up) actual size. Belleville assembly (inside) 31.8 (1.25)

Vibration: Setpoint repeats after

15 g, 10 to 2000 Hz

Setpoint Repeatability: ±1% of

adjustable range

Switch Output: 1 or 2 SPDT, factorysealed lead wires; mechanical contact

life: 10 million cycles

Electrical Ratings: 5 A @ 250 Vac, 5 A resistive and 3 A inductive @ 28 Vdc; silver contacts

Enclosure: 300 stainless steel; NEMA 4X, 7, 9 and IP66 Weight: Approximately 0.34 kg

Electrical Connection: ½ MNPT with

1.8 m (72") lead wires

Pressure Connection: 1/4 FNPT

Dimensions: mm (inch) FACTORY-SEALED 46 (1.8) LONG 1/2 NPT (ST/ST) 34.9 (1.38) **ADJUSTMENT** ACCESS COVER. SLIDE UP TO OPEN. SLOTTED ADJUSTMENT SCREW. TURN IN 72.9 (2.88) TO BAISE SETPOINT. WIRE COLOR CODING 15.9 (0.62) SPDT SW1 BRN BRN RED RED N.C. N.O. 1/4 NPT (ST/ST)

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COMPACT SWITCHES

See switch
accessories, visit
us online for audible
alarms and
relay modules.



To Order													
	Α	DJUSTAB	LE RANG	E		DEA	DBAND			MUM			
	FALL	/LOW	RISE/	HIGH	LC)W	HIG	GH		KING SURE	PROOF PR	ESSURE	
MODEL NO.	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	psi	bar	SWITCH
1/4 FNPT 316 SS F	PRESSUR	E CONNEC	CTION, PF	A-COATE	D POL	YIMIDE	DIAPH	RAGM.			· · ·		
BUNA N O-RING,	1/8" ORIF	CE, SINGI	LE 5 A SP	DT SWIT	CH			ĺ					
PSW12T-AS	8	0.6	30	2.1	2	0.1	6	0.4	600	41	1000	69	Single
PSW12T-BS	15	1.0	55	3.8	3	0.2	8	0.6	600	41	1000	69	Single
PSW12T-CS	30	2.1	170	11.7	5	0.3	15	1.0	600	41	1000	69	Single
PSW12T-DS	100	6.9	370	25.5	15	1.0	50	3.4	600	41	1000	69	Single
PSW12T-ES	200	13.8	700	48.3	40	2.8	90	6.2	1500	103	3000	206	Single
PSW12T-FS	400	27.6	1500	103.0	100	6.9	250	17.2	3000	206	4500	309	Single
PSW12T-GS	1000	68.9	3200	220.6	100	6.9	500	34.5	6000	414	10,000	689	Single
PSW12T-HS	2000	137.9	6000	414.0	400	27.6	800	55.2	8000	551	10,000	689	Single
1/4 FNPT 316 SS F		E CONNEC				FKM O			ICE, SIN	IGLE 5	A SPDT SW	ITCH	
PSW12V-AS	9	0.6	35	2.4	2	0.1	7	0.5	600	41	1000	69	Single
PSW12V-BS	25	1.7	65	4.5	3	0.2	10	0.7	600	41	1000	69	Single
PSW12V-CS	50	3.5	150	10.3	5	0.3	15	1.0	600	41	1000	69	Single
PSW12V-DS	100	6.9	350	24.1	15	1.0	50	3.4	600	41	1000	69	Single
PSW12V-ES	250	17.2	700	48.3	40	2.8	95	6.6	1500	103	3000	206	Single
PSW12V-FS	400	27.6	1500	103.0	100	6.9	300	20.7	3000	206	4500	309	Single
PSW12V-GS	1000	68.9	3200	220.6	100	6.9	500	34.5	6000	414	10,000	689	Single
PSW12V-HS	2000	137.9	6000	414.0	400	27.6	1000	69	8000	551	10,000	689	Single
1/4 FNPT 316 SS F						YIMIDE	DIAPH	RAGM,					
BUNA-N O-RING,						ı	ı						
PSW12T-AD	8	0.6	30	2.1	2	0.1	6	0.4	600	41	1000	69	Dual
PSW12T-BD	15	1.0	55	3.8	3	0.2	8	0.6	600	41	1000	69	Dual
PSW12T-CD	30	2.1	170	11.7	5	0.3	15	1.0	600	41	1000	69	Dual
PSW12T-DD	100	6.9	370	25.5	15	1.0	50	3.4	600	41	1000	69	Dual
PSW12T-ED	200	13.8	700	48.3	40	2.8	90	6.2	1500	103	3000	206	Dual
PSW12T-FD	400	27.6	1500	103.0	100	6.9	250	17.2	3000	206	4500	309	Dual
PSW12T-GD	1000	68.9	3200	220.6	100	6.9	500	34.5	6000	414	10,000	689	Dual
PSW12T-HD	2000	137.9	6000	414.0	400	27.6	800	55.2	8000	551	10,000	689	Dual
1/4 FNPT 316 SS F								1					
PSW12V-AD	9	0.6	35	2.4	2	0.1	7	0.5	600	41	1000	69	Dual
PSW12V-BD	25	1.7	65	4.5	3	0.2	10	0.7	600	41	1000	69	Dual
PSW12V-CD	50	3.5	150	10.3	5	0.3	15	1.0	600	41	1000	69	Dual
PSW12V-DD	100	6.9	350	24.1	15	1.0	50	3.4	600	41	1000	69	Dual
PSW12V-ED	250	17.2	700	48.3	40	2.8	95	6.6	1500	103	3000	206	Dual
PSW12V-FD	400	27.6	1500	103.0	100	6.9	300	20.7	3000	206	4500	309	Dual
PSW12V-GD	1000	68.9	3200	220.6	100	6.9	500	34.5	6000	414	10,000	689	Dual
PSW12V-HD	2000	137.9	6000	414.0	400	27.6	1000	69	8000	551	10,000	689	Dual

Comes complete with operator's manual.

Ordering Examples: PSW12T-DS-GND, single 5 A SPDT switch with PFA-coated diaphragm and external grounding screw. **PSW12V-ED,** dual 5 A SPDT switch with 316 SS diaphragm and FKM O-ring.

ACCESSORIES

MODEL NO.	DESCRIPTION
PSW12-CL	Cover lock
PSW12-MB	Mounting

PSW-150 Series



See switch accessories online for audible alarms and relay modules



- ✓ Easy Adjustments
- ✓ Vibration-Resistant Setpoints

PSW-150 Series differential switches are ideally suited for laboratory and industrial applications in which a rugged, repeatable, and dependable switch is required. For ease of installation, ports are tagged high and low, and the setpoint adjusts over the entire range.

SPECIFICATIONS

Approval: UL listed Repeatability: ±1% range

Ambient Switch Shift: 0.04% range/°C

Storage Temperature: -55 to 75°C

(-67 to 167°F)

Ambient Switch Temp: -40 to 70°C (-40 to 158°F)

Process Temp:

Brass and Phosphor Bronze:

120°C (248°F)

316 SS: 260°C (500°F)

Shock: Setpoint repeats after 15 g

at 10 ms duration

Vibration: Setpoint repeats after 2.5 q

at 5 to 500 Hz

Output: 1 SPDT, 15 A, 125/250/480 Vac

gray enamel finish

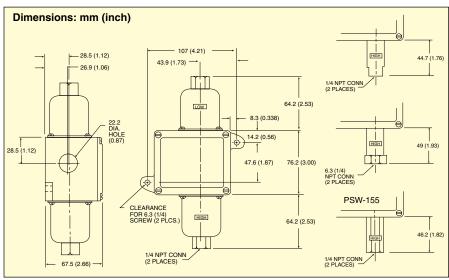
Pressure Port: 1/4 FNPT

Weight: 0.9 kg (2 lb)



PRESSURE SWITCHES

LOW



To Order					
MODEL NO.	PRESSURE RANGE	DEADBAND	PROOF PRESSURE	STATIC PRESSURE	BELLOWS MATERIAL
PSW-151	0 to 6 psid	0.1 to 0.4	6 psi	30 inHg vac to 30 psi	Brass
PSW-152	0 to 25 psid	0.6 to 1.0	25 psi	30 inHg vac to 110 psi	Phosphor bronze
PSW-153	0 to 40 psid	0.3 to 0.7	40 psi	30 inHg vac to 180 psi	Brass
PSW-154	0 to 70 psid	2.0 to 4.0	70 psi	30 inHg vac to 350 psi	316 SS
PSW-155	10 to 90 psid	2.0 to 4.0	90 psi	30 inHg vac to 200 psi	Phosphor bronze

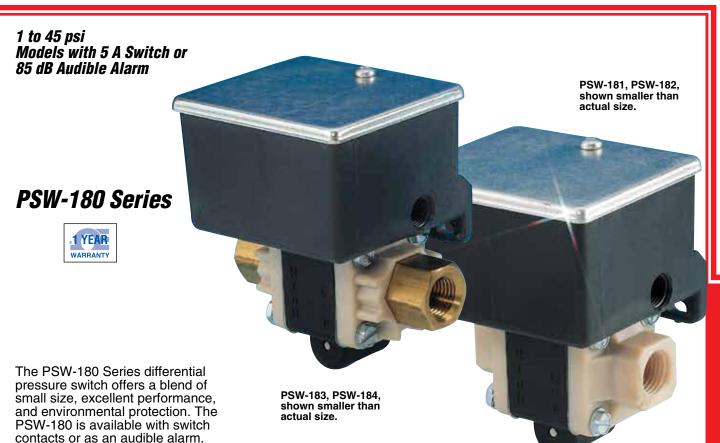
Comes complete with operator's manual.

Ordering Example: PSW-155. phosphor bronze bellows with range of 10 to 90 psid.

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PRESSURE SWITCHES/ALARMS



SPECIFICATIONS

Switch: SPDT rated at 5 A at 250/125 Vac, 5 A at 30 Vdc,

gold-clad contacts

Audible Alarm: Internal 9 Vdc battery powered, continuous tone 85 dB (battery

included)

Repeatability: 1% of span Ambient Temperature:

Storage: -30 to 80°C (-22 to 176°F) Operating: 0 to 70°C (32 to 158°F)

Max Media Temp: 95°C (203°F) @ 100 psi

Vibration: MIL STD 810C, 2.5 g

5 to 500 cps

Shock: 15 g, 10 ms duration

Working Pressure:

0 to 150 psid at up to 70°C (158°F)

air temperature

Differential Proof Press.: 150 psid at up to 70°C (158°F) air temperature

Enclosure:

NEMA 4 (IP65), reinforced polyester body, zinc-plated steel cover with neoprene gasket, terminal block wiring Not suitable for vacuum on low side (piston not attached to diaphragm).

Adjustment: Multiturn screw, accessible from outside enclosure

Pressure Port:

1/4 FNPT brass, 1/4 NPSF polysulfone

Dimensions:

Polysulfone: 70 W x 60 D x 89 mm H

(2.75 x 2.38 x 3.5")

Brass: 80 W x 60 D x 89 mm H

(3.13 x 2.38 x 3.5")

Weight: Approx. 165 g (5.8 oz)

To Order									
1/ NIDOE	1/ ENIDE		ADJUSTABL	E RANGE (psic	d)				
¼ NPSF	¼ FNPT	ON FALL		ON RISE		SWITCH	TYPICAL		
POLYSULFONE	BRASS	MIN	MAX	MIN	MAX		DEADBAND		
MODELS WITH 5	AMP SWITCH								
PSW-181	PSW-183	1.0	9.0	2.0	10.0	5 A SPDT	0.75		
PSW-182	PSW-184	4.0	43.5	5.5	45.0	5 A SPDT	1.0		
MODELS WITH 85	MODELS WITH 85 dB AUDIBLE ALARM								
PSW-186	PSW-188	4.0	43.5	5.5	45.0	N/A	1.0		

Comes complete with operator's manual.

Ordering Example: PSW-186, differential pressure switch with polysulfone process connection and internal audible alarm.

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PRESSURE SWITCHES



PSW-190 Series



The PSW-190 Series cylindrical pressure switch has an epoxysealed electrical termination. This rugged design enables the switch to withstand harsh environments.

SPECIFICATIONS

Switch: SPDT, 5 A at 250 Vac or 30 Vdc gold-clad silver contacts for loads down to 5 mA at 6 Vdc, 2 mA at 12 Vdc and 1 mA at 24 Vdc

Operating Ambient Range:

-20 to 75°C (-4 to167°F) with Buna-N construction; -20 to 80°C (-4 to 176°F) with FKM or EPDM construction

Media Temp: 70°C (158°F) with Buna-N sensor; 120°C (248°F) with FKM sensor

Wetted Parts:

Brass, O-ring and diaphragm

Repeatability:

PSW-191, 192, 195 and 196: ±1% PSW-193, 194, 197 and 198: ±1.5%

Shock: Setpoint repeats after 50 g 10 ms duration

Vibration: Setpoint repeats after

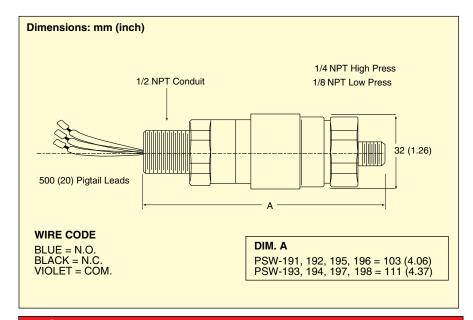
10 g, 5 to 500 cps

Enclosure and Cover: Aluminum with irridite finish rated for 100 hr salt spray; potted and gasketed for outdoor use

Pressure Connection:

PSW-191, 192, 195 and 196: 1/8 NPT PSW-193, 194, 197 and 198: 1/4 NPT

Weight: 128 g (4.5 oz)



To Order				
MODEL NO.	ADJUSTABLE RANGE	TYPICAL DEADBAND	MAX SYS PRESSURE	PROOF PRESSURE
Models with	n Buna-N O-Ring and Dia	aphragm		
PSW-191	10 to 150 psi	2 to 10	1500	3000
PSW-192	30 to 600 psi	8 to 60	2500	3000
PSW-193	100 to 1500 psi	20 to 220	8000	10,000
PSW-194	180 to 3000 psi	50 to 400	8000	10,000
Models with	h FKM O-Ring and Diaph	ragm		
PSW-195	11 to 150 psi	2.5 to 11.5	1500	3000
PSW-196	33 to 600 psi	9.5 to 69	2500	3000
PSW-197	110 to 1500 psi	23 to 253	8000	10,000
PSW-198	198 to 3000 psi	57.5 to 460	8000	10,000

Comes complete with operator's manual.

Ordering Example: PSW-192, cylindrical pressure switch with a Buna-N O-ring and diaphragm and an adjustable range of 30 to 600 psi.

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PRESSURE SWITCHES



PSW-190 Series



The PSW-190 Series cylindrical pressure switch has an epoxysealed electrical termination. This rugged design enables the switch to withstand harsh environments.

SPECIFICATIONS

Switch: SPDT, 5 A at 250 Vac or 30 Vdc gold-clad silver contacts for loads down to 5 mA at 6 Vdc, 2 mA at 12 Vdc and 1 mA at 24 Vdc

Operating Ambient Range:

-20 to 75°C (-4 to167°F) with Buna-N construction; -20 to 80°C (-4 to 176°F) with FKM or EPDM construction

Media Temp: 70°C (158°F) with Buna-N sensor; 120°C (248°F) with FKM sensor

Wetted Parts:

Brass, O-ring and diaphragm

Repeatability:

PSW-191, 192, 195 and 196: ±1% PSW-193, 194, 197 and 198: ±1.5%

Shock: Setpoint repeats after 50 g 10 ms duration

Vibration: Setpoint repeats after

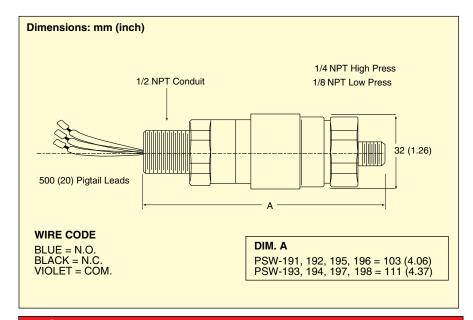
10 g, 5 to 500 cps

Enclosure and Cover: Aluminum with irridite finish rated for 100 hr salt spray; potted and gasketed for outdoor use

Pressure Connection:

PSW-191, 192, 195 and 196: 1/8 NPT PSW-193, 194, 197 and 198: 1/4 NPT

Weight: 128 g (4.5 oz)



To Order				
MODEL NO.	ADJUSTABLE RANGE	TYPICAL DEADBAND	MAX SYS PRESSURE	PROOF PRESSURE
Models with	n Buna-N O-Ring and Dia	aphragm		
PSW-191	10 to 150 psi	2 to 10	1500	3000
PSW-192	30 to 600 psi	8 to 60	2500	3000
PSW-193	100 to 1500 psi	20 to 220	8000	10,000
PSW-194	180 to 3000 psi	50 to 400	8000	10,000
Models with	h FKM O-Ring and Diaph	ragm		
PSW-195	11 to 150 psi	2.5 to 11.5	1500	3000
PSW-196	33 to 600 psi	9.5 to 69	2500	3000
PSW-197	110 to 1500 psi	23 to 253	8000	10,000
PSW-198	198 to 3000 psi	57.5 to 460	8000	10,000

Comes complete with operator's manual.

Ordering Example: PSW-192, cylindrical pressure switch with a Buna-N O-ring and diaphragm and an adjustable range of 30 to 600 psi.

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4

PSW-236.

shown smaller

than actual size.

200 SERIES DIV. 2

PRESSURE SWITCHES FOR HARSH ENVIRONMENTS

Vacuum to 1700 psi

PSW-200 Series

Rugged, One-Piece, **Epoxy-Coated** Aluminum Body

✓ Meets NEMA 4X (IP66) Classification

UL Listed

PSW-246D

30 inHg vac to 0

Stainless Steel Nameplate

✓ Internal Reference Scale with Adjustment Lock

SPECIFICATIONS

Approvals: UL listed Storage Temperature: -54 to 71°C (-65 to 160°F)

Ambient Temperature Limits: -40 to 71°C (-40 to 160°F), except models PSW-234 to PSW-240 and PSW-221 to PSW-226: -18 to 71°C (0 to 160°F); setpoint typically shifts less than 1% of range for a 28°C (50°F) ambient temperature change

Process Temperature:

Stainless Steel: -57 to 204°C

(-70 to 400°F)

Phosphor Bronze: -40 to 149°C

(-40 to 300°F)

Buna-N: -23 to 93°C (-10 to 200°F)

Shock: Setpoint repeats after 15 g,

10 ms duration

Vibration: Setpoint repeats after

2.5 g, 5 to 500 Hz

Enclosure Classification: Complies with NEMA 4X (IP66)

Setpoint Repeatability: 1% of adjustable range, except models PSW-241 to PSW-245D: 1.5%

Switch Output: Hermetically sealed SPDT or DPDT switch can be wired "normally open" or "normally closed"

Electrical Output: 11 A. 125/250 Vac

resistive

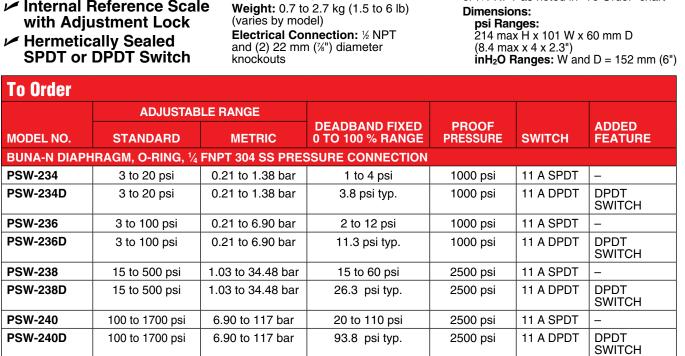
Enclosure: Die-cast aluminum, epoxy coated, gasketed

Pressure Connection: ½ FNPT, or 1/4 FNPT as noted in "To Order" chart

DPDT

SWITCH

11 A DPDT



11.3 inHg vac typ.

30 psi

PHOSPHOR-BRONZE BELLOWS, 1/4 FNPT NICKEL-PLATED BRASS PRESSURE CONNECTION

-1 to 0 bar

PRESSURE SWITCHES

PSW-241, psi range, shown smaller than actual size.





To Order							
	ADJUSTA	BLE RANGE	DEADBANI	ס			
MODEL NO.	STANDARD	METRIC	0 TO 75% RANGE	100% RANGE	PROOF PRESSURE	SWITCH	ADDED FEATURE
BUNA-N DIAI	PHRAGM, O-RING	a, ¼ FNPT 304 SS P	RESSURE CONNEC	TION			
PSW-231	1 to 20 psi	0.07 to 1.38 bar	0.1 to 3 psi	_	500 psi	11 A SPDT	-
PSW-231D	1 to 20 psi	0.07 to 1.38 bar	3.8 psi typ.	-	500 psi	11 A DPDT	DPDT SWITCH
PSW-232	2 to 50 psi	0.14 to 3.45 bar	0.1 to 5 psi	_	500 psi	11 A SPDT	_
PSW-232D	2 to 50 psi	0.14 to 3.45 bar	5.3 psi typ.	_	500 psi	11 A DPDT	DPDT SWITCH
PSW-241	5 to 30 psi	0.34 to 2.07 bar	3 to 8 psi	10 psi	2500 psi	11 A SPDT	_
PSW-241D	5 to 30 psi	0.34 to 2.07 bar	9.8 psi typ.	_	2500 psl	11 A DPDT	DPDT SWITCH
PSW-242	10 to 100 psi	0.69 to 6.90 bar	3 to 30 psi	45 psi	2500 psi	11 A SPDT	_
PSW-242D	10 to 100 psi	0.69 to 6.90 bar	41.3 psi typ.	_	2500 psi	11 A DPDT	DPDT SWITCH
PSW-243	15 to 300 psi	1.03 to 20.69 bar	10 to 40 psi	60 psi	2500 psi	11 A SPDT	_
PSW-243D	15 to 300 psi	1.03 to 20.69 bar	52.5 psi typ.	_	2500 psi	11 A DPDT	DPDT SWITCH
PSW-244	20 to 500 psi	1.38 to 34.98 bar	15 to 45 psi	75 psi	2500 psi	11 A SPDT	_
PSW-244D	20 to 500 psi	1.38 to 34.98 bar	67.5 psi typ.	-	2500 psi	11 A DPDT	DPDT SWITCH
PSW-245D	80 to 1700 psi	5.50 to 117 bar	168.8 psi typ.	_	2500 psi	11 A DPDT	DPDT SWITCH
	· · · · · · · · · · · · · · · · · · ·		JMINUM PRESSURE	CONNEC			
PSW-221	300 vac to 0 inH ₂ O	-747.24 to 0 mbar	0.8 to 32 inH ₂ O	_	100 psi	11 A SPDT	_
PSW-221D	300 vac to 0 inH ₂ O	-747.24 to 0 mbar	36 inH ₂ O typ.	-	100 psi	11 A DPDT	DPDT SWITCH
PSW-222	10 vac to 10 inH ₂ O	-24.94 to 24.94 mbar	0.4 to 2.4 inH2O	_	100 psi	11 A SPDT	_
PSW-222D	10 vac to 10 inH ₂ O	-24.94 to 24.94 mbar	2.7 inH ₂ O typ.	_	100 psi	11 A DPDT	DPDT SWITCH
PSW-223	50 vac to 50 inH ₂ O	-124.54 to 124.54 mbar	0.4 to 12 inH ₂ O	_	100 psi	11 A SPDT	_
PSW-223D	50 vac to 50 inH ₂ O	-124.54 to 124.54 mbar	13.5 inH ₂ O typ.	_	100 psi	11 A DPDT	DPDT SWITCH
PSW-224	0.5 to 5 inH ₂ O	1.25 to 12.45 mbar	0.4 to 1.2 inH ₂ O	_	100 psi	11 A SPDT	_
PSW-225	2.5 to 50 inH ₂ O	6.23 to 124.154 mbar	0.4 to 3.2 inH ₂ O	-	100 psi	11 A SPDT	_
PSW-225D	2.5 to 50 inH ₂ O	6.23 to 124.154 mbar	3.6 inH ₂ O typ.	_	100 psi	11 A DPDT	DPDT SWITCH
PSW-226	10 to 250 inH ₂ O	24.91 to 622.70 mbar	0.4 to 24 inH ₂ O	_	100 psi	11 A SPDT	_
PSW-226D	10 to 250 inH ₂ O	24.91 to 622.70 mbar	27 inH ₂ O typ.	_	100 psi	11 A DPDT	DPDT

Comes complete with operator's manual.

Important Note Regarding DPDT Switches: DPDT switches are manufactured so that contact transfer of both switches occurs at the same time for rising pressure setpoints. For falling pressure setpoints, a small amount of non-simultaneity in the switch outputs may be observed.

Note: Deadbands are fixed and non-adjustable and tend to increase linearly with increased setpoint.

Ordering Example: PSW-241, pressure switch 5 to 30 psi, stainless steel diaphragm, 3 to 8 psi deadband.

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PSW-300 Series: Vacuum to 3000 psi PSW-350 Series: 5 InH20 to 400 psid



PSW-300 Series



- Rugged Epoxy-Coated NEMA 4X (IP66) Watertight Enclosure
- Dependable Switch Actuation Between the 2 Input Pressures
- High Static Pressure

51 (2.0) (4.1)95 (5.9) 3/4 NPT 32 (1.3) **®** 0.125R 1/4 NPT LOW PRESS. (2.2)(3.3)64 (2.5)1/4 NPT HIGH PRESS. Dimmensions: mm (inch)

SPECIFICATIONS

Approvals: UL listed, CSA certified **Storage Temp:** -29 to 66°C (-20 to 150°F)

Ambient Temp Limits: -29 to 66°C (-20 to 150°F); setpoint typically shifts

+1% of range per 28°C (50°F) of temperature change.

Enclosure: NEMA 4X (IP66) and corrosion resistant
Setpoint Repeatability: ±1% of range

Switch Output: 1 or 2 SPDT

switches

can be wired "normally open" or

"normally closed"
Electrical Rating:
10 A: 125/250 Vac
0.5 A: 125 Vdc
0.25 A: 250 Vdc

Enclosure: Epoxy-coated aluminum, gasketed Weight: 0.9 kg (2 lb)

3/4 FNPT

Pressure Connection:

Electrical Connection:

1/4 FNPT; brass-plated carbon steel for psid ranges; carbon steel for H2O ranges; 1/2 NPT male for vacuum to 600 psi;

1/4 FNPT for 1000 and 3000 psi

Connection Material:

Vac through inH20 ranges: carbon steel; all psi ranges: 316 SS

Dimensions:

153 H x 105 W mm

(6 x 4.125"); 95 mm D (3.75") for psi units; 114 mm D (4.5")

for inH2O units

OPTIONS

ORDERING SUFFIX	DESCRIPTION
-V	FKM diaphragm and O-ring
-T	PTFE diaphragm and O-ring
-SS	SS diaphragm (psi units to 60 psid only)
-M	Monel® (psi ranges only)

To Order

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metee sii ww	W.IOIIICtCC.It IIIIOC	TOTHICLOC.IL TO	DEADDAND	PHOUP	mocromete		
MODEL NO.	STANDARD	METRIC	STANDARD UNITS	PRESSURE	SWITCH		
FNPT SINGLE SETPOINT, ADJUSTABLE DEADBAND, BUNA-N DIAPHRAGM, O-RING, $^1\!\!4$ FNPT CONNECTION							
PSW-301	-6 to -30 inHg vac	-20 to -100 kPa	6 to 24	250 psi	10 A SPDT		
PSW-302	6 to 30 inH ₂ O	1.5 to 7.5 kPa	4 to 27	20 psi	10 A SPDT		
PSW-303	12 to 60 inH ₂ O	3 to 15 kPa	5 to 54	20 psi	10 A SPDT		
PSW-304	30 to 150 inH ₂ O	7.4 to 37 kPa	18 to 135	20 psi	10 A SPDT		
PSW-305	3 to 15 psi	20 to 100 kPa	2.5 to 13	500 psi	10 A SPDT		
PSW-306	6 to 30 psi	40 to 200 kPa	3 to 18	500 psi	10 A SPDT		
PSW-307	20 to 100 psi	140 to 700 kPa	10 to 90	1000 psi	10 A SPDT		
PSW-308	40 to 200 psi	280 to 1400 kPa	18 to 180	1000 psi	10 A SPDT		
PSW-309	80 to 400 psi	0.56 to 2.8 MPa	45 to 360	2400 psi	10 A SPDT		
PSW-310	200 to 1000 psi	1.4 to 7 MPa	160 to 900	12,000 psi	10 A SPDT		
PSW-311	600 to 3000 psi	4.2 to 21 MPa	400 to 2600	12,000 psi	10 A SPDT		
FNPT DUAL SETP	OINT, FIXED DEADBAND	, BUNA-N DIAPHRA	AGM, O-RING, ¼ FNPT	CONNECTION			
PSW-321	-6 to -30 inHg vac	- 20 to -100 kP	0.7 to 1.4	250 psi	Two 15 A SPDT		
PSW-322	6 to 30 inH ₂ O	1.5 to 7.5 kPa	0.7 to 1.4	20 psi	Two 15 A SPDT		
PSW-323	12 to 60 inH ₂ O	3 to 15 kPa	0.7 to 1.8	20 psi	Two 15 A SPDT		
PSW-324	30 to 150 inH ₂ O	7.4 to 37 kPa	2.1 to 4.2	20 psi	Two 15 A SPDT		
PSW-325	3 to 15 psi	20 to 100 kPa	0.7 to 1.4	500 psi	Two 15 A SPDT		
PSW-326	6 to 30 psi	40 to 200 kPa	0.7 to 2.1	500 psi	Two 15 A SPDT		
PSW-327	20 to 100 psi	140 to 700 kPa	1.4 to 3.5	1000 psi	Two15 A SPDT		
PSW-328	40 to 200 psi	280 to 1400 kPa	1.4 to 5.6	1000 psi	Two 15 A SPDT		
PSW-329	80 to 400 psi	0.56 to 2.8 MPa	6 to 11	2400 psi	Two 15 A SPDT		
PSW-330	200 to 1000 psi	1.4 to 7 MPa	10 to 42	12,000 psi	Two 15 A SPDT		
PSW-331	600 to 3000 psi	4.2 to 21 MPa	42 to 98	12,000 psi	Two 15 A SPDT		
FNPT DUAL SETF	OINT, FIXED DEADBAND	, 316 SS DIAPHRAG	GM, ¼ FNPT CONNEC	TION			
PSW-345	3 to 15 psi	20 to100 kPa	0.7 to 1.4	500 psi	Two 15 A SPDT		
PSW-346	6 to 30 psi	40 to 200 kPa	1.7 to 2.8	500 psi	Two 15 A SPDT		
PSW-347	20 to 100 psi	140 to 700 kPa	2.8 to 5.6	1000 psi	Two 15 A SPDT		
PSW-348	40 to 200 psi	280 to 1400 kPa	4.2 to 11.2	1000 psi	Two 15 A SPDT		

To Order	r				
MODEL NO.	ADJUSTABLE RANGE UNITS	DEADBAND STANDARD PRESSURE	STATIC WORKING PRESSURE	PROOF PRESSURE	SWITCH
Single Setpo	oint, Adjustable De	eadband, Buna	-N Diaphragm	, O-Ring, ¼ NF	TF
PSW-351	5 to 30 inH ₂ O	4 to 27	5.4 psi	21.6 psi	10 A SPDT
PSW-352	9 to 60 inH ₂ O	5 to 54	5.4 psi	21.6 psi	10 A SPDT
PSW-353	15 to 100 inH ₂ O	8.5 to 90	5.4 psi	21.6 psi	10 A SPDT
PSW-354	23 to 150 inH ₂ O	18 to 135	5.4 psi	21.6 psi	10 A SPDT
PSW-355	5 to 30 psid	3 to 27	500 psi	2000 psi	10 A SPDT
PSW-356	9 to 60 psid	5 to 54	500 psi	2000 psi	10 A SPDT
PSW-357	30 to 200 psid	18 to 180	1000 psi	4000 psi	10 A SPDT
PSW-358	60 to 400 psid	45 to 360	1000 psi	8000 psi	10 A SPDT
Dual Setpoi	nt, Fixed Deadban	d, Buna-N Diap	hragm, O-Rin	g, ¼ NPTF	
PSW-361	5 to 30 inH ₂ O	0.7 to 1.4	5.4 psi	21.6 psi	Dual 15 A*
PSW-362	9 to 60 inH ₂ O	0.7 to 2.0	5.4 psi	21.6 psi	Dual 15 A*
PSW-363	15 to 100 inH ₂ O	1.4 to 2.8	5.4 psi	21.6 psi	Dual 15 A*
PSW-364	23 to 150 inH ₂ O	2.4 to 4.2	5.4 psi	21.6 psi	Dual 15 A*
PSW-365	5 to 30 psid	1.0 to 2.1	500 psi	2000 psi	Dual 15 A*
PSW-366	9 to 60 psid	1.4 to 2.8	500 psi	2000 psi	Dual 15 A*
PSW-367	30 to 200 psid	1.4 to 5.6	1000 psi	4000 psi	Dual 15 A*
PSW-368	60 to 400 psid	5.6 to 11	1000 psi	8000 psi	Dual 15 A*

"Pressure Switch Options (Add Suffix to Model Number for additional cost):

Hermetically sealed 5 A 125/250 Vac switch for extra protection in severe environments "-P", single setpoint. "-PP", dual setpoint.

Ordering Example: PSW-345-PP, dual

hermetically sealed switches, range of 3 to 15 psi.

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INDUSTRIAL PRESSURE SWITCHES

Vacuum to 3000 psi

PSW-400 Series



- Dual-Chamber Design **Isolates Electronics from Pressure Media**
- Heavy-Duty Cast Aluminum with **Corrosion-Resistant Epoxy Coating**
- ✓ Meets NEMA 7 and 9 **Classifications**
- ✓ Gasketed Covers
- ✓ Tamper/Vibration-**Resistant Setpoint** Adjustment
- Surface and Mounting **Bracket Standard**

Designed for applications in hazardous atmospheres. PSW-400 Series pressure switches offer complete reliability thanks to a rugged, die-cast aluminum enclosure with waterproof gaskets and 2 separate chambers for electronics and actuator. Single or dual setpoints are available, with all critical parts made of stainless steel. In addition, the PSW-400 Series employs vibration-resistant setpoints and a calibrated scale.

Definition of Division 1:

Locations where hazardous material concentrations exist continuously, intermittently, or periodically under normal operating conditions.

SPECIFICATIONS

Approval: UL listed; Class I, Divisions 1 and 2, Groups B, C, D; Class II, Divisions 1 and 2, Groups E, F, G; CSA certified

Storage Temp: -29 to 65°C (-20 to 150°F)

Process Temp Limits:

Stainless Steel: 149°C (300°F) Buna-N: 65°C (150°F)

Ambient Temp Limits: -29 to 65°C (-20 to 150°F)



Enclosure Classification:

NEMA 7 and 9 hazardous location, explosion proof, dust-ignition proof Setpoint Repeatability: ±1% of range Switch Output: 1 or 2 SPDT switches can be wired "normally open" or "normally closed"

Electrical Rating:

10 A: 125/250 Vac 0.5 A: 125 Vdc 0.25 A: 250 Vdc 15 A: 125/250 Vac

Optional Hermetically Sealed 5 A: 125/250 Vac

Enclosure: Dual-chamber, epoxy-coated

cast aluminum, gasketed Electrical Connection: 2 ea. ¾ NPT

electrical conduit hubs

Pressure Connection: 1/4 FNPT, vacuum to 600 psi; ½ MNPT; ¼ FNPT, 1000 to 3000 psi

Connection Material:

Vacuum Through inH₂O Ranges:

Carbon steel

All psi Ranges: 316 SS

Dimensions: psi Ranges:

206 (max) H x 140 W x 70 mm D (from center line) (7.1 H x 5.5 W x 2.8" D

from center line)

inH₂O Ranges: W and D = 140 mm (5.5")



Weight: 2.7 kg (6 lb)

OPTIONAL CONFIGURATIONS:

Oxygen Service: Specify option "-X6B" for oxygen cleaning, and extra cost

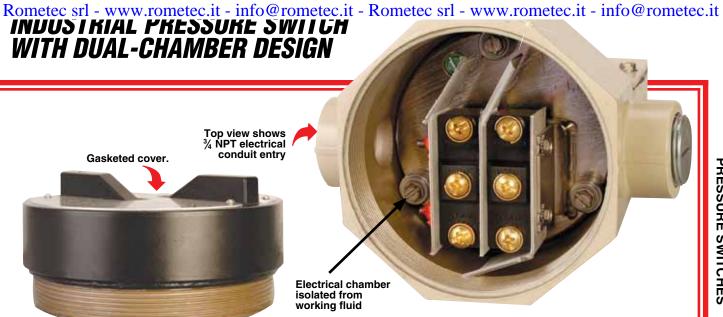
(316 SS only)

Pressure Switch Options:

(add suffix to part number and extra cost) Hermetically sealed 5 A 125/250 Vac switch for extra protection in severe environments:

"-P" Single Setpoint. "-PP" Dual Setpoint.

316 SS Welded Pressure Activator: 15 to 600 psi ranges only.



To Order					
	ADJUSTAE	BLE RANGE	DEADBAND	PROOF	
MODEL NO.	STANDARD	METRIC	STANDARD UNITS	PRESSURE	SWITCH
SINGLE SETPOINT, A	DJUSTABLE DEADE	AND, BUNA-N DIAP	HRAGM, O-RING, ¼ F	NPT CONNECT	TION
PSW-401	-6 to -30 inHg vac	-20 to -100 kPa	3 to 27 inHg	250 psi	10 A SPDT
PSW-402	6 to 30 inH ₂ O	1.5 to 7.5 kPa	3 to 27 inH ₂ O	20 psi	10 A SPDT
PSW-403	12 to 60 inH ₂ O	3 to 15 kPa	3 to 54 inH₂O	20 psi	10 A SPDT
PSW-404	30 to 150 inH ₂ O	7.4 to 37 kPa	15 to 135 inH ₂ O	20 psi	10 A SPDT
PSW-405	3 to 15 psi	20 to 100 kPa	2 to 13 psi	500 psi	10 A SPDT
PSW-406	6 to 30 psi	40 to 200 kPa	2 to 27	500 psi	10 A SPDT
PSW-407	20 to 100 psi	140 to 700 kPa	5 to 90	1000 psi	10 A SPDT
PSW-408	40 to 200 psi	280 to 1400 kPa	13 to 180	1000 psi	10 A SPDT
PSW-409	80 to 400 psi	0.56 to 2.8 MPa	20 to 360	2400 psi	10 A SPDT
PSW-410	200 to 1000 psi	1.4 to 7 MPa	100 to 900	12,000 psi	10 A SPDT
PSW-411	600 to 3000 psi	4.2 to 21 MPa	200 to 2800	12,000 psi	10 A SPDT
DUAL SETPOINT, FIX	ED DEADBAND, BUN	NA-N DIAPHRAGM, ½	FNPT CONNECTION		
PSW-421	-6 to -30 inHg vac	-20 to -100 kPa	0.5 to 1 inHg	250 psi	Two 15 A SPDT
PSW-422	6 to 30 inH₂O	1.5 to 7.5 kPa	0.5 to 1 inH ₂ O	20 psi	Two 15 A SPDT
PSW-423	12 to 60 inH ₂ O	3 to 15 kPa	0.5 to 1.3 inH ₂ O	20 psi	Two 15 A SPDT
PSW-424	30 to 150 inH₂O	7.4 to 37 kPa	1.5 to 3 inH ₂ O	20 psi	Two 15 A SPDT
PSW-425	3 to 15 psi	20 to 100 kPa	0.5 to 1 psi	500 psi	Two 15 A SPDT
PSW-426	6 to 30 psi	40 to 200 kPa	0.5 to 1.5 psi	500 psi	Two 15 A SPDT
PSW-427	20 to 100 psi	140 to 700 kPa	1 to 2.5 psi	1000 psi	Two 15 A SPDT
PSW-428	40 to 200 psi	280 to 1400 kPa	1 to 4 psi	1000 psi	Two 15 A SPDT
PSW-429	80 to 400 psi	0.56 to 2.8 MPa	4 to 8 psi	2400 psi	Two 15 A SPDT
PSW-430	200 to 1000 psi	1.4 to 7 MPa	7 to 30 psi	12000 psi	Two 15 A SPDT
PSW-431	600 to 3000 psi	4.2 to 21 MPa	30 to 70 psi	12000 psi	Two 15 A SPDT
DUAL SETPOINT, FIX	ED DEADBAND, 316	SS DIAPHRAGM, 1/4	FNPT CONNECTION		
PSW-445	3 to 15 psi	20 to 100 kPa	0.5 to 1 psi	500 psi	Two 15 A SPDT
PSW-446	6 to 30 psi	40 to 200 kPa	1 to 2 psi	500 psi	Two 15 A SPDT
PSW-447	20 to 100 psi	140 to 700 kPa	2 to 4 psi	1000 psi	Two 15 A SPDT
PSW-448	40 to 200 psi	280 to 1400 kPa	3 to 8 psi	1000 psi	Two 15 A SPDT

Comes complete with mounting bracket, and operator's manual.

Ordering Example: PSW-425, dual-setpoint switch, range 3 to 15 psi, with fixed deadband and Buna-N diagram.

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VACUUM SWITCHES

Vacuum to 800 psi

PSW-500 Series



- **∠** External Pressure Scale and Pointer for Easy **Setpoint Adjustments**
- ✓ 5 A Model Switches with **High Proof Pressures**
- ✓ 1 A Gold-Plated Switches for TTL and **Dry-Contact Closures**
- Stainless Steel, Sealing Compound and/or **O-Ring Wetted Parts**





Both shown actual size.

See Switch Accessories at omega.com for Audible Alarms and Relay Modules.

To Order						
PRESSURE MODELS	ADJUSTABLE RANGE (psig) DECREASING INCREASING		DEADBAND (psig)	REPEATABILITY (psi)	MAX SYSTEM PRESSURE (psi)*	SWITCH
PSW-521	0.8 to 28.5	1.6 to 30	0.8 to 1.3	±0.6	30	1 A
PSW-522	2.0 to 38.3	3.0 to 40	1.0 to 1.7	±1.0	50	1 A
PSW-523	3.0 to 96.5	4.5 to 100	1.5 to 3.5	±2.0	100	1 A
PSW-524	7.5 to 242.5	9.7 to 250	2.2 to 9.0	±5.0	250	1 A
PSW-525	15 to 485	20 to 500	5.0 to 21	±10	500	1 A
PSW-531	0.8 to 16.3	1.2 to 20	0.6 to 3.7	±0.8	3000	5 A
PSW-532	2.0 to 42.5	2.0 to 50	0.8 to 7.5	±2.0	3000	5 A
PSW-533	4.0 to 91	4.0 to 100	1.1 to 9.0	±4.0	5000	5 A
PSW-534	10 to 222	10 to 250	2.2 to 28	±10	5000	5 A
PSW-535	20 to 432	20 to 500	3.5 to 68	±20	5000	5 A
PSW-536	50 to 700	100 to 800	20 to 100	±40	5000	5 A
	ADJUSTABLE	RANGE (inHg)			MAX SYSTEM	
VACUUM MODELS	DECREASING	INCREASING	DEADBAND (inHg)	REPEATABILITY (inHg)	PRESSURE (inHg vac/psig)*	SWITCH
PSW-541	1.6 to 27.0	2.7 to 28.2	1.3 to 2.7	±1.2	29.9/0	1 A
PSW-542	4.0 to 24.8	5.1 to 28.2	1.5 to 3.2	±2.0	29.9/0	1 A
PSW-543	6.0 to 21.5	8.4 to 28.2	2.0 to 7.3	±4.0	29.9/0	1 A
PSW-551	1.2 to 22.5	1.6 to 28.2	1.1 to 5.7	±1.6	29.9/3000	5 A
PSW-552	1.2 to 21.8	8.0 to 28.2	8.0 to 6.4	±8.0	29.9/5000	5 A

^{*} Exceeding these values may cause a shift in the setpoint.

Comes complete with operator's manual.

Ordering Example: PSW-525, gage model switch for maximum system pressure of 500 psi.

MINIATURE HIGH-PRESSURE SWITCHES

- ✓ 1 A and 5 A Switch Models
- Heavy-Duty Overpressure Protection

PSW-560 (1 A) AND PSW-570 (5 A) SERIES PERFORMANCE TABLE

	ANCE TABL		
MODEL	NOMINAL SETPOINT (psi)	DEADBAND 1 A/5 A	REPEATABILITY (±psi)
PSW-561	500	70/120	25
PSW-571	1000	80/130	50
	1500	90/145	75
	2000	100/160	100
	2500	110/180	125
PSW-562	600	113/186	45
PSW-572	1000	145/220	60
	1500	190/262	85
	2000	235/305	100
	2500	280/345	125
	3000	325/385	150
	3500	364/430	175
	4000	410/470	200
	5000	410/470	250
PSW-563	700	177/455	65
PSW-573	1000	210/620	75
	1500	247/730	85
	2000	300/820	100
	3000	315/980	150
	4000	340/1000	200
	5000	355/1110	250
	6000	375/1280	300



Approvals: UL (1 A switches PSW-520 and PSW-540 Series only) Process Temp: -55 to 105°C (-65 to 221°F) [2% setpoint shift can occur below -25°C (-13°F) or above

Cycling: Not to exceed 20 cycles/min Warranty: 3 year/1 million cycles Sensor: Piston (PSW-520 and

PSW-540: diaphragm)

50°C (122°F)]

Proof Pressure: 150% max system pressure (PSW-530 and PSW-550: proof pressure is the max system pressure)

Wetted Parts:

PSW-520 and 540 Series: 17-7 PH SS, 303 SS and loctite #271 PSW-530 and 550 Series: 303 SS, 316 SS, Buna-N O-ring, loctite #271 PSW-560 and 570 Series: 17-7 PH SS, 303 SS, Buna-N O-ring and

loctite #271



Body: 303 SS

Internal Switch Housing and Lock Ring: Zinc alloy, chromate finish Cap: Black Valox®

Dimensions:

PSW-520 and PSW-540: 65 L x 28.6 mm Dia. (2.56 x 1.13") PSW-560 and PSW-570:

71 L x 27.8 mm Dia. (1.75 x 1.09")

Pressure Port: 1/8-27 NPT **Electrical Connection:** 20 AWG. 3 polyvinyl-insulated, unjacketed, 300 mm (12") pigtail leads

Wiring Code (Pressure):

Red = N/CWhite = N/OBlack = Common

Wiring Code (Vacuum):

Red = N/O White = N/CBlack = Common

Weight: 113 g (4 oz); PSW-520 and PSW-540 Series: 85 g (3 oz)

To Order									
1 A 5 A		ADJUSTABLE	RANGE (psig)	MAX SYSTEM PRESSURE	PROOF PRESSURE				
MODEL	MODEL	DECREASING	INCREASING	(psig)	(psig)				
PSW-561	PSW-571	500 to 2390	500 to 2500	3000	4500				
PSW-562	PSW-572	600 to 4500	600 to 5000	5000	7500				
PSW-563	PSW-573	700 to 5500	700 to 6000	6000	9000				

^{*} Exceeding these values may cause a shift in the setpoint.

SWITCH RATING

MAX RATING	AC/DC	VOLTS RESISTIVE	AMPS	AMPS INDUCTIVE CONTACTS
1 A SPDT	115/28	1/1	1/0.5	Gold**
5 A SPDT	250/28	5/5	5/3	Silver

^{**} Use gold contacts for dry and TTL circuitry (e.g., 5 Vdc @ 50 mA or less).

Caution: Pressure switches are manufactured to the highest-quality specifications. However, because of their economical construction, they should be used only for applications in which, in the event of product failure, the risk of damage to equipment or personnel is minimal.

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FOR HIGH-CYCLE APPLICATIONS

30 to 20,000 psi Watertight Enclosure NEMA 4 (IP65)

PSW601 Series

- ✓ Watertight, Corrosion-Resistant Case
- ✓ Thin-Film Sensor for Long, Stable Life— **Minimum 1 Million Cycles** at Rated Load
- Reliable in Industrial **Environments**
- ✓ Field Adjustable

OMEGA's PSW601 Series switches are designed to provide long. stable life. They use a thin-film sensor with a minimum life of 1 million cycles. Solid state circuitry analyzes the signal from the sensor to activate the switch at the setpoint. Deadbands are adjustable from 0.1 to 95% of range, and status lights give a visual indication of switch status.

SPECIFICATIONS

Switch: UL SPDT switch

Electrical: 10 A, 125/250 Vac resistive and inductive; 10 A, 30 Vdc resistive

Temperature Limits: -29 to 71°C (-20 to 160°F)

Temperature Effects: 2% FS/25°C Repeatability: ±0.5% full range Proof Pressure: See "To Order" chart Deadband: Adjustable 0.1 to 95%

of range

Power Requirements:

Standard: 24 Vdc, 12 mA unactivated; 43 mA activated Optional: 110 to 120 Vac 50/60 Hz or

250 Vac 50/60 Hz

Enclosure: Anodized aluminum body; watertight, NEMA 4 (IP65)

Process Connection: ≤7500 psi: ¼ FNPT >7500 psi: 1/4 Aminco-F

Electrical Connections: 1/2 NPT conduit fitting with #18 AWG 450 mm (18")

insulated wire leads

Wetted Parts: 316 SS fitting and 17-4 PH SS diaphragm

Dimensions: 144 H x 102 W x 59 mm D

 $(5.7 \times 4 \times 2.3")$

See switch accessories on omega.com for audible alarms and relay modules PSW601B-5K, shown smaller than actual size.

To Order								
SETPOINT LIMITS (psi)	MODEL NUMBER	PROOF (psi)	BURST (psi)					
STANDARD MODELS: 24 Vdc, SINGLE 10 A Switch								
3 to 30	PSW601B-30	120	480					
3 to 60	PSW601B-60	120	480					
5 to 100	PSW601B-100	200	800					
10 to 200	PSW601B-200	400	1600					
15 to 300	PSW601B-300	600	2400					
25 to 500	PSW601B-500	1000	4000					
35 to 750	PSW601B-750	1500	6000					
50 to 1000	PSW601B-1K	2000	8000					
100 to 2000	PSW601B-2K	4000	16,000					
150 to 3000	PSW601B-3K	4500	9000					
250 to 5000	PSW601B-5K	7500	15,000					
375 to 7500	PSW601B-7.5K	9000	11,250					
500 to 10,000	PSW601A-10K*	12,000	15,000					
750 to 15,000	PSW601A-15K*	18,000	22,000					
1000 to 20,000	PSW601A-20K*	24,000	30,000					

^{*} Process connection is a 1/4" Aminco-F fitting. Comes complete with operator's manual.

For 110 Vac powered models, add suffix "-110VAC" to model number; no extra charge. For 250 Vac powered models, add suffix "-250VAC" to model number; add cost to price.

Ordering Example: PSW601B-100, 24 Vdc power, range of 5 to 100 psi and single 10 A switch.

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PRESSURE AND VACUUM SWITCHES

Vacuum to 500 psi

PSW-690 Series



- ✓ All Stainless Steel **Wetted Parts**
- ✓ Sensing Element Capsule, Electron **Beam Welded**
- Helium Leak Tested 4 x 10° STD CC/sec
- **∠** External Pressure Scale and Pointer For Easy Set **Point Adjustment**
- ✓ Available with ¼ VCR Male or 1/4-27 NPT Male Fittings

SPECIFICATIONS

Process Temp: -54 to 107°C (-65 to 225°F); setpoint change of up to 2% of sensor capacity may be anticipated when switch is used either below -23°C or above 51°C

Cycling: Not to exceed 20 cycles/min, 1 million cycles

Proof Pressure: 150% max pressure

Wetted Parts: 17-7 pH electron beam welded, 303 SS fitting

Enclosure: 303 Stainless Steel body, zinc alloy with chromate finish locking ring and switch housing, valox cap Dimensions: 51 L x 29 mm Dia (2 x 1.125") with NPT fitting; 60 L x 29 mm Dia (2.375 x 1.125") with VCR fitting

Wiring Code:

±1.2

29.9

PSW-696-V5, shown actual size.

✓ NEMA 4 Enclosure Pr ✓ Available with		Approx. 85g (3 oz) • Port: 1/8-27 MNPT or 1/4 N I: 300 mm (12") pigtail lea polyvinyl insulated	VCR Red = N/C, Wh	ch: Black = Common,
To Order				
	ADJUSTA	BLE RANGE	SETPOINT	MAX
MODEL NO.	DECREASING	INCREASING	REPEATABILITY	PRESSURE
GAGE PRESSURE	SWITCHES 1/4 NPT FITTING (psi	g)		
PSW-691-N[*]	0.8 to 28.5	1.6 to 30.0	±0.6	30
PSW-692-N[*]	2.0 to 48.0	3.0 to 50.0	±1.0	50
PSW-693-N[*]	3.0 to 96.5	4.5 to 100.0	±2.0	100
PSW-694-N[*]	7.5 to 242.5	9.7 to 250	±5.0	250
PSW-695-N[*]	15.0 to 485.0	20.0 to 500.0	±10.0	500
GAGE PRESSURE	SWITCHES 1/4 VCR FITTING (ps	ig)		
PSW-691-V[*]	0.8 to 28.5	1.6 to 30.0	±0.6	30
PSW-692-V[*]	2.0 to 48.0	3.0 to 50.0	±1.0	50
PSW-693-V[*]	3.0 to 96.5	4.5 to 100.0	±2.0	100
PSW-694-V[*]	7.5 to 242.5	9.7 to 250	±5.0	250
PSW-695-V[*]	15.0 to 485.0	20.0 to 500.0	±10.0	500
VACUUM SWITCH	ES 1/4 NPT FITTING (inHg)			
PSW-696-N[*]	1.6 to 27.0	2.7 to 28.2	±1.2	29.9

Comes complete with operator's manual.

PSW-696-V[*]

[*] Specify "-1" for 1 A or "-5" for 5 A switch.

Ordering Examples: PSW-692-N1, switch for maximum system pressure of 30 psig with 1/8 NPT fitting and 1A switch.

PSW-696-N5, switch with 1/8 NPT fitting and 5A switch.

VACUUM SWITCHES ¼ VCR FITTING (inHg)

1.6 to 27.0

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2.7 to 28.2

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SINGLE OR DUAL SETPOINT, INTERNAL OR EXTERNAL ADJUSTMENT

30 inHg Vacuum to 3000 psi

PSW-700 Series



- Division 1 Rating
- Single or Dual Setpoints, Tamper Resistant
- ✓ Heavy-Duty Enclosure
- ✓ Rated NEMA 4X, 7, 9 (IP66)
- ✓ Terminal Block Wiring
- ✓ High-Temperature Operation to 200°C (392°F) **Process Temperature** (Stainless Steel Model Only)

PSW-700 Series pressure switches are built for the rugged industrial setting. The internal setpoints allow adjustments while keeping the electrical component isolated from the environment. Both the internal and external setpoints have a range scale, allowing fast, easy setup.

SPECIFICATIONS

Approvals: UL listed; Class I, Division 1 and 2, Groups B, C and D; Class II, Groups E, F and G; Class III

Repeatability: ±1% range **Process Temperature:**

Stainless Steel: -57 to 204°C

(-70 to 400°F)

Brass: -40 to 149°C (-40 to 300°F) **Buna-N:** -23 to 93°C (-10 to 200°F)

Ambient Temperature:

-50 to 71°C (-58 to 160°F), except for models 703 to 705, which are -18 to 71°C (0 to 160°F). Setpoint typically shifts less than 1% of range for a 28°C (50°F) ambient temperature change.

Shock: Setpoint repeats after 15 g, 10 ms duration

Vibration: Setpoint repeats after

2.5 g at 5 to 500 Hz Output: 1 SPDT or 2 SPDT

15 Å 125/250/480 Vac

See switch accessories online for audible alarms **CEOMEGA** and relay modules. PSW-701, 711-714 PSW-722, ±10 inH2O range, shown much smaller than actual size. 1/2 NPT PSW-702-704, 708, 709 1/2 NPT PSW-731-735 1/2 NPT PSW-721-72 1/4 NPT (F) 1/4 NPT PSW-710, 715-717 Enclosure: Low copper-cast epoxy-coated aluminum Electrical Connection: ¾ NPT conduit; internal screw terminals **Dimensions: Dual external** psi Ranges: setpoint 230 (max) calibration H x 125 W x 108 mm D adjustment (9 x 4.9 x 4.3") H₂O Ranges: W and D = 153 mm (6") Weight: Approx. 1.7 kg (4 lb)

INDUSTRIAL SWITCHES

PSW-707, 0 to 500 psi range, shown smaller than actual size

To Oudon			O N			
To Order						
	RAN	IGE				
MODEL NO.	STANDARD	METRIC	DEADBAND STANDARD UNITS	PROOF PRESSURE	SWITCH	DIAL GRADUATION
SINGLE SET	POINT, FIXED DEADE	BAND, WELDED 316	L SS DIAPHRAGM, ½	FNPT PRESSI	JRE CONNECTION	ON
PSW-721	-300 to 0 inH ₂ O	-747 to 0 mbar	0.2 to 15 inH ₂ O	100 psi	15 A SPDT	Blind adj
PSW-722	-10 to 10 inH ₂ O	-25 to 25 mbar	0.1 to 0.6 inH ₂ O	100 psi	15 A SPDT	Blind adj
PSW-723	-50 to 50 inH ₂ O	-125 to 125 mbar	0.1 to 3 inH ₂ O	100 psi	15 A SPDT	Blind adj
PSW-724	0.5 to 5 inH ₂ O	1.25 to 12.5 mbar	0.1 to 0.3 inH ₂ O	100 psi	15 A SPDT	Blind adj
PSW-725	2.5 to 50 inH ₂ O	6 to 125 mbar	0.1 to 0.8 inH ₂ O	100 psi	15 A SPDT	Blind adj
PSW-726	10 to 250 inH ₂ O	25 to 622 mbar	0.1 to 10 inH ₂ O	100 psi	15 A SPDT	Blind adj
PSW-731	5 to 30 psi	0.3 to 2.1 bar	1 to 6 psi	2500 psi	15 A SPDT	Blind adj
PSW-732	10 to 100 psi	0.7 to 7 bar	1 to 15 psi	2500 psi	15 A SPDT	Blind adj
PSW-733	15 to 300 psi	1 to 21 bar	3 to 25 psi	2500 psi	15 A SPDT	Blind adj
PSW-734	20 to 500 psi	1.4 to 34.5 bar	4 to 45 psi	2500 psi	15 A SPDT	Blind adj
PSW-735	80 to 1700 psi	5.5 to 117 bar	5 to 150 psi	2500 psi	15 A SPDT	Blind adj
DUAL SETP	OINT, EXTERNAL CA	ALIBRATED ADJUS	TMENT, SEALED BR	ASS BELLOV	vs,	
	KEL-PLATED BRASS			00 :-11-	(0)45 A ODDT	0.5 in 11:
PSW-701	30 inHg vac to 0 psi	1.02 to 0 bar	0.2 to 0.9 inHg	30 inHg	(2)15 A SPDT	0.5 inHg
PSW-711	30 inHg vac to 20 psi	-1 to 1.4 bar	0.2 to 1.2 inHg	25 psi	(2)15 A SPDT	1 inHg & 0.5 psi
PSW-712	0 to 30 psi	0 to 2 bar	0.1 to 0.6 psi	40 psi	(2)15 A SPDT	0.5 psi
PSW-713 PSW-714	0 to 100 psi	0 to 6.9 bar	0.2 to 0.8 psi	125 psi	(2)15 A SPDT	2 psi
	0 to 200 psi	0 to 13.8 bar	0.3 to 2 psi	200 psi	(2)15 A SPDT	5 psi
	SSURE CONNECTIO		MENT, WELDED 316	SS BELLOWS	,	
PSW-702	0 to 20 psi	0 to 1.4 bar	0.1 to 0.5	25 psi	(2)15 A SPDT	0.5 inHg
PSW-703	0 to 30 psi	0 to 2 bar	0.1 to 0.6	40 psi	(2)15 A SPDT	0.5 psi
PSW-704	0 to 100 psi	0 to 6.9 bar	0.2 to 0.8	125 psi	(2)15 A SPDT	2 psi
PSW-708	30 inHg vac to 20 psi	-1 to 1.4 bar	0.2 to 1.2 inHg	25 psi	(2)15 A SPDT	1 inHg & 0.5 psi
PSW-709	0 to 200 psi	0 to 13.8 bar	0.3 to 2 psi	200 psi	(2)15 A SPDT	5 psi
DUAL SETP	OINT, EXTERNAL CA	ALIBRATED ADJUS	STMENT, WELDED 31	6 SS BELLOV	vs,	
	SSURE CONNECTION	i e	45:0	050	(0)45 4 000	5
PSW-705	0 to 200 psi	0 to 13.8 bar	1.5 to 8	250 psi	(2)15 A SPDT	5 psi
PSW-706	0 to 300 psi	0 to 20.7 bar	2 to 9	350 psi	(2)15 A SPDT	10 psi
PSW-707	0 to 500 psi	0 to 34.5 bar	3 to 12	575 psi	(2)15 A SPDT	10 psi
	OINT, EXTERNAL CA SS PRESSURE CON		STMENT, FIXED DEAD	JBAND, BUN	A-N O-RING, SS	PISTON,
PSW-710	125 to 3000 psi	8.6 to 207 bar	40 to 250 psi	10,000 psi	(2)15 A SPDT	50 psi
		ALIBRATED ADJUS	TMENT, FIXED DEAD			
PSW-715	30 to 300 psi	2 to 21 bar	2 to 7 psi	1000 psi	(2)15 A SPDT	10 psi
PSW-716	50 to 500 psi	3.5 to 34.5 bar	3 to 12 psi	2500 psi	(2)15 A SPDT	10 psi
PSW-717	200 to 1000 psi	13.8 to 69 bar	5 to 25 psi	2500 psi	(2)15 A SPDT	25 psi
			1 0 to 20 psi		(=)10 /(01 D1	20 poi

Comes complete with operator's manual.

Ordering Example: PSW-703-X6B, dual-setpoint 30 psi switch with welded SS diaphragm, specially cleaned for oxygen service.

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PRESSURE SWITCHES

Vacuum to 7500 psi

PSW-800 Series



- Easy Adjustment with **Locking Set Screw**
- Rugged Industrial Design
- ✓ Standard ½" Female Conduit Fitting for **Electrical Termination**

The PSW-800 Series comprises economical pressure switches that feature an easy-to-adjust setpoint with locking set screw. They have a sealed-piston or diaphragm-piston design, ideal for harsh environments. All models come with 300 mm (12") color-coded leads and a 1/2" female conduit fitting for electrical connections.

SPECIFICATIONS

Setpoint Repeatability:

Diaphragm Models (PSW-801 to PSW-807): ±1% of span Piston Modéls (PSW-808 to **PSW-811):** ±1.5% of span

Hysteresis/Deadband:

See "To Order" table at right

Contact Rating: 5 A maximum @ 125/250 Vac, silver serrated contacts 3 A max @ 28 Vdc

Temp Range: -20 to 75°C (-4 to 167°F) (vacuum range); -30 to 75°C (-22 to 167°F) (500 psi and below); -40 to 75°C (-40 to 167° F) (600 psi and above)

Thermal Effects: <1% for 25°C

(45°F) change

Proof Pressure: See "To Order" table Burst Pressure: 2x proof pressure

Sensor Type:

PSW-801 to PSW-807: Diaphragm piston

PSW-808 to PSW-811: Sealed piston

Wetted Parts:

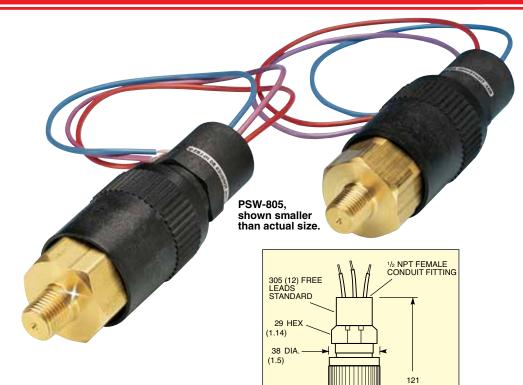
500 psi and Below: Brass, Buna-N 600 psi and Above: Brass, Buna-N and stainless steel

Pressure Port: 1/4 MNPT

Electrical Connection: 300 mm (12") free leads with ½" female conduit fitting

Housing: Open-type plastic housing

Weight: 0.4 kg (0.95 lb)



32 HEX

1/4 NPT MALE

PRESSURE PORT Dimensions: mm (inch)

(1.26)

(4.76)

WIRE CODE	PRESSURE	VACUUM
Lead	Color	Color
Normally closed	Blue	Red
Common	Purple	Purple
Normally open	Red	Blue

To Order								
	PR	ESSURE S	ETTING I	RANGE				
MODEL	DECRE	ASING	INCR	EASING	DEADBAND	PROOF		
NUMBER	MIN	MAX	MIN	MAX	RANGE	PRESSURE		
VACUUM MODE	EL (inHg)							
PSW-801	1	28	4	30	1 to 4	30 psi		
GAGE PRESSU	RE MODELS	(psig)						
PSW-802	2.5	12.8	3	15	0.5 to 2.2	1000 psi		
PSW-803	5	31	6	35	1.0 to 4.0	1000 psi		
PSW-804	8.5	44	10	50	1.5 to 6.0	1000 psi		
PSW-805	22.5	112	25	125	2.5 to 13	1000 psi		
PSW-806	70.0	220	50	250	10 to 30	1000 psi		
PSW-807	110	440	130	500	20 to 60	1000 psi		
PSW-808	190	450	250	600	60 to 150	7000 psi		
PSW-809	360	1450	430	1700	70 to 250	7000 psi		
PSW-810	1450	3900	1650	4400	200 to 500	7000 psi		
PSW-811	3650	6700	4000	7500	350 to 800	12,000 psi		

Comes complete with operator's manual.

Ordering Example: PSW-804, 10 to 50 psi pressure switch with 1.5 to 6.0 psi deadband range and 1000 psi proof pressure.

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CHOICE OF DUAL OR TRIPLE SWITCHES

30 inHg Vacuum to 3000 psi

PSW-850 Series



- ✓ 2- or 3-Switch Outputs— Can be Separated Up to 100% of Range
- Adjustable Pressure Ranges
- ✓ NEMA 1 Enclosure

The PSW-850 is a simple, economical control for processes that require multiple switching capabilities. Dual or triple switch controls provide multi-outputs in applications such as alarm and shutdown, pre-alarm and alarm, high/low limit, and level staging functions.

Triple-switch models have been used for liquid level control. In this application, 3 pressure settings correspond to "pumping out" elevations in a sump pump.

SPECIFICATIONS

Approvals: UL, CE compliant Storage Temperature: -54 to 71°C

(-67 to 158°F)

Ambient Temperature: -40 to 70°C (-40 to 160°F), except model PSW-852A: -40 to 70°C (0 to 160°F); setpoint typically shifts less than 1% of range for a 30°C (54°F) ambient

temperature change

Setpoint Repeatability: ±2% of adjustable range, except model PSW-852E: ±3% of adjustable range

Shock: Setpoint repeats after 15 g, 10 ms duration

Vibration: Setpoint repeats after

2.5 g, 5 to 500 Hz

Enclosure: Die-cast aluminum, epoxy powder coated, gasketed, captive

cover screws



See switch accessories online for audible alarms and relay modules

Enclosure Dimensions:

102 H x 125 W x 140 mm D (4 x 4.9 x 5.5"); 210 mm (8.25") maximum height with pressure port

Enclosure Classification: Complies with NEMA 1 requirements

Switch Output: 2 or 3 SPDT; switches can be separated up to 100%, except models PSW-852A and PSW-852B: 30%; switches can be wired "normally open" or

"normally closed"

125/250/480 Vac resistive Weight: Approx. 1.4 to 3.4 kg (3 to 7.5 lb) (varies with model) Electrical Connection: Three 22 mm (%") diameter knockouts

Pressure Connection: 1/4 FNPT

Electrical Rating: 15 A

except model PSW-852A: ½ FNPT

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To Order					
	RAN	GE			
MODEL NO.	STANDARD	METRIC	DEADBAND STANDARD UNITS	PROOF PRESSURE	SWITCH
DUAL SETPOINTS	, FIXED DEADBAND, B	UNA-N DIAPHRAGM,	O-RING, ½ FNPT ALU	MINUM PRESSURE CO	ONNECTION
PSW-852AA	-300 to 0 inH ₂ O	-747 to 0 mbar	0.2 to 8 inH ₂ O	100 psi	(2)15 A SPDT
PSW-852AB	-10 to 10 inH ₂ O	-25 to 25 mbar	0.1 to 0.6 inH ₂ O	100 psi	(2)15 A SPDT
PSW-852AC	-50 to 50 inH ₂ O	-125 to 125 mbar	0.1 to 3 inH ₂ O	100 psi	(2)15 A SPDT
PSW-852AD	0.5 to 5 inH ₂ O	1.25 to 12.5 mbar	0.1 to 0.3 inH ₂ O	100 psi	(2)15 A SPDT
PSW-852AE	2.5 to 50 inH ₂ O	6 to 125 mbar	0.1 to 0.8 inH ₂ O	100 psi	(2)15 A SPDT
PSW-852AF	10 to 250 inH ₂ O	25 to 622 mbar	0.1 to 8 inH ₂ O	100 psi	(2)15 A SPDT
	FIXED DEADBAND, 31	· · · · · · · · · · · · · · · · · · ·			
PSW-852BI	0 to 20 psi	0 to 1.4 bar	0.2 to 4 psi	225 psi	(2)15 A SPDT
PSW-852BK	0 to 50 psi	0 to 3.4 bar	0.7 to 6 psi	225 psi	(2)15 A SPDT
PSW-852BL	0 to 100 psi	0 to 6.9 bar	1 to 7 psi	225 psi	(2)15 A SPDT
DUAL SETPOINTS, BRASS PRESSURE	FIXED DEADBAND, SE ECONNECTION	EALED BRASS BELLO	WS, ¼ FNPT NICKEL-F	PLATED	
PSW-852CH	30 inHg vac to 20 psi	-1 to 1.4 bar	0.4 to 2.4 inHg	25 psi	(2)15 A SPDT
PSW-852CG	0 to 80 inH ₂ O	0 to 200 mbar	4 to 12 inH ₂ O	5 psi	(2)15 A SPDT
PSW-852CJ	0 to 30 psi	0 to 2 bar	0.2 to 1.2 psi	40 psi	(2)15 A SPDT
PSW-852CL	0 to 100 psi	0 to 6.9 bar	0.4 to 1.6 psi	125 psi	(2)15 A SPDT
PSW-852CM	0 to 200 psi	0 to 13.7 bar	0.6 to 4 psi	200 psi	(2)15 A SPDT
DUAL SETPOINTS	S, FIXED DEADBAND, '	WELDED 316L SS BE		ESSURE CONNECTIO	N
PSW-852DN	0 to 500 psi	0 to 34.5 bar	6 to 18 psi	575 psi	(2)15 A SPDT
	FIXED DEADBAND, 30				
PSW-852EO	100 to 1000 psi	7 to 69 bar	60 to 300 psi	10,000 psi	(2)15 A SPDT
PSW-852EP	200 to 3000 psi	13.8 to 206 bar	80 to 500 psi	10,000 psi	(2)15 A SPDT
DUAL SETPOINTS NICKEL-PLATED B	, REFERENCE ADJUS BRASS PRESSURE CO	TMENT, FIXED DEAD INNECTION	BAND, SEALED BRAS	SS BELLOWS, ¼ FNPT	
PSW-855CH	30 inHg vac. to 20 psi	-1 to 1.4 bar	0.4 to 2.4 inHg	25 psi	(2)15 A SPDT
DOW SEES!		0 to 2 bar	0.2 to 1.2 psi	40 noi	
PSW-855CJ	0 to 30 psi	0 to 2 bai	0.2 to 1.2 poi	40 psi	(2)15 A SPDT
PSW-855CL	0 to 100 psi	0 to 6.9 bar	0.4 to 1.6 psi	125 psi	(2)15 A SPDT
PSW-855CL PSW-855CM	0 to 100 psi 0 to 200 psi	0 to 6.9 bar 0 to 13.7 bar	0.4 to 1.6 psi 0.6 to 4 psi	125 psi 200 psi	+ ` '
PSW-855CL PSW-855CM DUAL SETPOINTS	0 to 100 psi	0 to 6.9 bar 0 to 13.7 bar STMENT, FIXED DEA	0.4 to 1.6 psi 0.6 to 4 psi	125 psi 200 psi	(2)15 A SPDT
PSW-855CL PSW-855CM DUAL SETPOINTS 1/4 FNPT 316L SS I PSW-855DN	0 to 100 psi 0 to 200 psi REFERENCE ADJU PRESSURE CONNEC 0 to 500 psi	0 to 6.9 bar 0 to 13.7 bar STMENT, FIXED DEATION 0 to 34 bar	0.4 to 1.6 psi 0.6 to 4 psi ADBAND, WELDED 3 6 to 18 psi	125 psi 200 psi 16L SS BELLOWS, 575 psi	(2)15 A SPDT
PSW-855CL PSW-855CM DUAL SETPOINTS ¼ FNPT 316L SS PSW-855DN THREE SETPOINT	0 to 100 psi 0 to 200 psi 5, REFERENCE ADJU PRESSURE CONNEC 0 to 500 psi TS, FIXED DEADBAND	0 to 6.9 bar 0 to 13.7 bar STMENT, FIXED DEATION 0 to 34 bar	0.4 to 1.6 psi 0.6 to 4 psi ADBAND, WELDED 3 6 to 18 psi	125 psi 200 psi 16L SS BELLOWS, 575 psi	(2)15 A SPDT (2)15 A SPDT
PSW-855CL PSW-855CM DUAL SETPOINTS 1/4 FNPT 316L SS I PSW-855DN	0 to 100 psi 0 to 200 psi 5, REFERENCE ADJU PRESSURE CONNEC 0 to 500 psi TS, FIXED DEADBAND	0 to 6.9 bar 0 to 13.7 bar STMENT, FIXED DEATION 0 to 34 bar	0.4 to 1.6 psi 0.6 to 4 psi ADBAND, WELDED 3 6 to 18 psi	125 psi 200 psi 16L SS BELLOWS, 575 psi	(2)15 A SPDT (2)15 A SPDT
PSW-855CL PSW-855CM DUAL SETPOINTS ¼ FNPT 316L SS I PSW-855DN THREE SETPOINT PRESSURE CONN	0 to 100 psi 0 to 200 psi 5, REFERENCE ADJU PRESSURE CONNEC 0 to 500 psi S, FIXED DEADBAND JECTION	0 to 6.9 bar 0 to 13.7 bar STMENT, FIXED DEATION 0 to 34 bar , SEALED BRASS BE	0.4 to 1.6 psi 0.6 to 4 psi ADBAND, WELDED 3 6 to 18 psi ELLOWS, ¼ FNPT NIC	125 psi 200 psi 16L SS BELLOWS, 575 psi EKEL-PLATED BRASS	(2)15 A SPDT (2)15 A SPDT (2)15 A SPDT
PSW-855CL PSW-855CM DUAL SETPOINTS ¼ FNPT 316L SS I PSW-855DN THREE SETPOINT PRESSURE CONN PSW-853CH	0 to 100 psi 0 to 200 psi S, REFERENCE ADJU PRESSURE CONNEC 0 to 500 psi S, FIXED DEADBAND IECTION 30 inHg vac. to 20 psi	0 to 6.9 bar 0 to 13.7 bar STMENT, FIXED DEATION 0 to 34 bar , SEALED BRASS BE -1 to 1.4 bar	0.4 to 1.6 psi 0.6 to 4 psi ADBAND, WELDED 3 6 to 18 psi ELLOWS, ¼ FNPT NIC	125 psi 200 psi 116L SS BELLOWS, 575 psi KEL-PLATED BRASS 25 psi	(2)15 A SPDT (2)15 A SPDT (2)15 A SPDT (2)15 A SPDT
PSW-855CL PSW-855CM DUAL SETPOINTS ¼ FNPT 316L SS I PSW-855DN THREE SETPOINT PRESSURE CONN PSW-853CH PSW-853CJ PSW-853CL PSW-853CM	0 to 100 psi 0 to 200 psi 5, REFERENCE ADJUPRESSURE CONNEC 0 to 500 psi 5, FIXED DEADBAND IECTION 30 inHg vac. to 20 psi 0 to 30 psi 0 to 100 psi 0 to 200 psi	0 to 6.9 bar 0 to 13.7 bar STMENT, FIXED DEATION 0 to 34 bar , SEALED BRASS BE -1 to 1.4 bar 0 to 2 bar 0 to 6.9 bar 0 to 13.7 bar	0.4 to 1.6 psi 0.6 to 4 psi ADBAND, WELDED 3 6 to 18 psi ELLOWS, ¼ FNPT NIC 0.4 to 2.4 inHg 0.2 to 1.2 psi 0.4 to 1.6 psi 0.6 to 4 psi	125 psi 200 psi 16L SS BELLOWS, 575 psi EKEL-PLATED BRASS 25 psi 40 psi 125 psi 200 psi	(2)15 A SPDT (2)15 A SPDT (2)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT
PSW-855CL PSW-855CM DUAL SETPOINTS ¼ FNPT 316L SS I PSW-855DN THREE SETPOINT PRESSURE CONN PSW-853CH PSW-853CJ PSW-853CL PSW-853CM THREE SETPOINT	0 to 100 psi 0 to 200 psi S, REFERENCE ADJU PRESSURE CONNEC 0 to 500 psi S, FIXED DEADBAND IECTION 30 inHg vac. to 20 psi 0 to 30 psi 0 to 100 psi 0 to 200 psi	0 to 6.9 bar 0 to 13.7 bar STMENT, FIXED DEATION 0 to 34 bar , SEALED BRASS BE -1 to 1.4 bar 0 to 2 bar 0 to 6.9 bar 0 to 13.7 bar WELDED 316L SS BE	0.4 to 1.6 psi 0.6 to 4 psi ADBAND, WELDED 3 6 to 18 psi ELLOWS, ¼ FNPT NIC 0.4 to 2.4 inHg 0.2 to 1.2 psi 0.4 to 1.6 psi 0.6 to 4 psi LLOWS, ¼ FNPT 316L	125 psi 200 psi 16L SS BELLOWS, 575 psi EKEL-PLATED BRASS 25 psi 40 psi 125 psi 200 psi SS PRESSURE CONN	(2)15 A SPDT (2)15 A SPDT (2)15 A SPDT (2)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT
PSW-855CL PSW-855CM DUAL SETPOINTS 1/4 FNPT 316L SS II PSW-855DN THREE SETPOINT PRESSURE CONN PSW-853CH PSW-853CJ PSW-853CL PSW-853CM THREE SETPOINT PSW-853DN	0 to 100 psi 0 to 200 psi S, REFERENCE ADJUPRESSURE CONNEC 0 to 500 psi S, FIXED DEADBAND IECTION 30 inHg vac. to 20 psi 0 to 30 psi 0 to 100 psi 0 to 200 psi S, FIXED DEADBAND, 0 to 500 psi	0 to 6.9 bar 0 to 13.7 bar STMENT, FIXED DEATION 0 to 34 bar SEALED BRASS BE -1 to 1.4 bar 0 to 2 bar 0 to 6.9 bar 0 to 13.7 bar WELDED 316L SS BE 0 to 34.5 bar	0.4 to 1.6 psi 0.6 to 4 psi ADBAND, WELDED 3 6 to 18 psi ELLOWS, ¼ FNPT NIC 0.4 to 2.4 inHg 0.2 to 1.2 psi 0.4 to 1.6 psi 0.6 to 4 psi LLOWS, ¼ FNPT 316L 6 to 8 psi	125 psi 200 psi 16L SS BELLOWS, 575 psi EKEL-PLATED BRASS 25 psi 40 psi 125 psi 200 psi SS PRESSURE CONN 575 psi	(2)15 A SPDT (2)15 A SPDT (2)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT
PSW-855CL PSW-855CM DUAL SETPOINTS ¼ FNPT 316L SS I PSW-855DN THREE SETPOINT PRESSURE CONN PSW-853CH PSW-853CJ PSW-853CL PSW-853CM THREE SETPOINT PSW-853DN THREE SETPOINT	0 to 100 psi 0 to 200 psi S, REFERENCE ADJU PRESSURE CONNEC 0 to 500 psi S, FIXED DEADBAND IECTION 30 inHg vac. to 20 psi 0 to 30 psi 0 to 100 psi 0 to 200 psi	0 to 6.9 bar 0 to 13.7 bar STMENT, FIXED DEATION 0 to 34 bar SEALED BRASS BE -1 to 1.4 bar 0 to 2 bar 0 to 6.9 bar 0 to 13.7 bar WELDED 316L SS BE 0 to 34.5 bar STMENT, FIXED DEAT	0.4 to 1.6 psi 0.6 to 4 psi ADBAND, WELDED 3 6 to 18 psi ELLOWS, ¼ FNPT NIC 0.4 to 2.4 inHg 0.2 to 1.2 psi 0.4 to 1.6 psi 0.6 to 4 psi LLOWS, ¼ FNPT 316L 6 to 8 psi	125 psi 200 psi 16L SS BELLOWS, 575 psi EKEL-PLATED BRASS 25 psi 40 psi 125 psi 200 psi SS PRESSURE CONN 575 psi	(2)15 A SPDT (2)15 A SPDT (2)15 A SPDT (2)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT
PSW-855CL PSW-855CM DUAL SETPOINTS ¼ FNPT 316L SS I PSW-855DN THREE SETPOINT PRESSURE CONN PSW-853CH PSW-853CJ PSW-853CL PSW-853CM THREE SETPOINT PSW-853DN THREE SETPOINT	0 to 100 psi 0 to 200 psi S, REFERENCE ADJU PRESSURE CONNEC 0 to 500 psi S, FIXED DEADBAND IECTION 30 inHg vac. to 20 psi 0 to 30 psi 0 to 100 psi 0 to 200 psi S, FIXED DEADBAND, 0 to 500 psi S, REFERENCE ADJUS	0 to 6.9 bar 0 to 13.7 bar STMENT, FIXED DEATION 0 to 34 bar SEALED BRASS BE -1 to 1.4 bar 0 to 2 bar 0 to 6.9 bar 0 to 13.7 bar WELDED 316L SS BE 0 to 34.5 bar STMENT, FIXED DEAT	0.4 to 1.6 psi 0.6 to 4 psi ADBAND, WELDED 3 6 to 18 psi ELLOWS, ¼ FNPT NIC 0.4 to 2.4 inHg 0.2 to 1.2 psi 0.4 to 1.6 psi 0.6 to 4 psi LLOWS, ¼ FNPT 316L 6 to 8 psi	125 psi 200 psi 16L SS BELLOWS, 575 psi EKEL-PLATED BRASS 25 psi 40 psi 125 psi 200 psi SS PRESSURE CONN 575 psi	(2)15 A SPDT (2)15 A SPDT (2)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT
PSW-855CL PSW-855CM DUAL SETPOINTS 1/4 FNPT 316L SS IF PSW-855DN THREE SETPOINTS PRESSURE CONN PSW-853CH PSW-853CL PSW-853CL PSW-853CM THREE SETPOINTS PSW-853DN THREE SETPOINTS PSW-853DN THREE SETPOINTS NICKEL-PLATED	0 to 100 psi 0 to 200 psi S, REFERENCE ADJU PRESSURE CONNEC 0 to 500 psi S, FIXED DEADBAND IECTION 30 inHg vac. to 20 psi 0 to 30 psi 0 to 100 psi 0 to 200 psi S, FIXED DEADBAND, 0 to 500 psi S, REFERENCE ADJUSTRASS PRESSURE CO	0 to 6.9 bar 0 to 13.7 bar STMENT, FIXED DEATION 0 to 34 bar SEALED BRASS BE -1 to 1.4 bar 0 to 2 bar 0 to 6.9 bar 0 to 13.7 bar WELDED 316L SS BE 0 to 34.5 bar STMENT, FIXED DEAD NNECTION	0.4 to 1.6 psi 0.6 to 4 psi ADBAND, WELDED 3 6 to 18 psi ELLOWS, ¼ FNPT NIC 0.4 to 2.4 inHg 0.2 to 1.2 psi 0.4 to 1.6 psi 0.6 to 4 psi LLOWS, ¼ FNPT 316L 6 to 8 psi DBAND, SEALED BRA	125 psi 200 psi 16L SS BELLOWS, 575 psi EKEL-PLATED BRASS 25 psi 40 psi 125 psi 200 psi SS PRESSURE CONN 575 psi ASS BELLOWS, ¼ FNP	(2)15 A SPDT (2)15 A SPDT (2)15 A SPDT (2)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT
PSW-855CL PSW-855CM DUAL SETPOINTS 1/4 FNPT 316L SS I PSW-855DN THREE SETPOINT PRESSURE CONN PSW-853CH PSW-853CJ PSW-853CL PSW-853CM THREE SETPOINT PSW-853DN THREE SETPOINT NICKEL-PLATED E PSW-856CH	0 to 100 psi 0 to 200 psi S, REFERENCE ADJUPRESSURE CONNEC 0 to 500 psi S, FIXED DEADBAND JECTION 30 inHg vac. to 20 psi 0 to 30 psi 0 to 100 psi 0 to 200 psi S, FIXED DEADBAND, 0 to 500 psi S, FIXED DEADBAND, 30 inHg vac to 20 psi	0 to 6.9 bar 0 to 13.7 bar STMENT, FIXED DEATION 0 to 34 bar SEALED BRASS BE -1 to 1.4 bar 0 to 2 bar 0 to 6.9 bar 0 to 13.7 bar WELDED 316L SS BE 0 to 34.5 bar STMENT, FIXED DEAD NNECTION -1 to 1.4 bar	0.4 to 1.6 psi 0.6 to 4 psi ADBAND, WELDED 3 6 to 18 psi ELLOWS, ¼ FNPT NIC 0.4 to 2.4 inHg 0.2 to 1.2 psi 0.4 to 1.6 psi 0.6 to 4 psi LLOWS, ¼ FNPT 316L 6 to 8 psi DBAND, SEALED BRA 0.4 to 2.4 inHg	125 psi 200 psi 200 psi 16L SS BELLOWS, 575 psi EKEL-PLATED BRASS 25 psi 40 psi 125 psi 200 psi SS PRESSURE CONN 575 psi ASS BELLOWS, ¼ FNP	(2)15 A SPDT (2)15 A SPDT (2)15 A SPDT (2)15 A SPDT (3)15 A SPDT (3)15 A SPDT (3)15 A SPDT ECTION (3)15 A SPDT T
PSW-855CL PSW-855CM DUAL SETPOINTS ¼ FNPT 316L SS F PSW-855DN THREE SETPOINT PRESSURE CONN PSW-853CH PSW-853CL PSW-853CL PSW-853CM THREE SETPOINT PSW-853DN THREE SETPOINT NICKEL-PLATED F PSW-856CJ	0 to 100 psi 0 to 200 psi S, REFERENCE ADJUPRESSURE CONNEC 0 to 500 psi S, FIXED DEADBAND JECTION 30 inHg vac. to 20 psi 0 to 30 psi 0 to 100 psi 0 to 200 psi S, FIXED DEADBAND, 0 to 500 psi S, FIXED DEADBAND, 0 to 500 psi S, REFERENCE ADJUGBRASS PRESSURE CO	0 to 6.9 bar 0 to 13.7 bar STMENT, FIXED DEATION 0 to 34 bar SEALED BRASS BE -1 to 1.4 bar 0 to 2 bar 0 to 6.9 bar 0 to 13.7 bar WELDED 316L SS BE 0 to 34.5 bar STMENT, FIXED DEAD NNECTION -1 to 1.4 bar 0 to 2 bar	0.4 to 1.6 psi 0.6 to 4 psi ADBAND, WELDED 3 6 to 18 psi ELLOWS, ¼ FNPT NIC 0.4 to 2.4 inHg 0.2 to 1.2 psi 0.4 to 1.6 psi 0.6 to 4 psi LLOWS, ¼ FNPT 316L 6 to 8 psi DBAND, SEALED BRA 0.4 to 2.4 inHg 0.2 to 1.2 psi	125 psi 200 psi 200 psi 16L SS BELLOWS, 575 psi EKEL-PLATED BRASS 25 psi 40 psi 125 psi 200 psi SS PRESSURE CONN 575 psi ASS BELLOWS, ¼ FNP	(2)15 A SPDT (2)15 A SPDT (2)15 A SPDT (3)15 A SPDT T (3)15 A SPDT
PSW-855CL PSW-855CM DUAL SETPOINTS ¼ FNPT 316L SS IPSW-855DN THREE SETPOINTPRESSURE CONN PSW-853CH PSW-853CL PSW-853CM THREE SETPOINTPSW-853CM THREE SETPOINTPSW-853DN THREE SETPOINTSPSW-856CH PSW-856CH PSW-856CL PSW-856CM	0 to 100 psi 0 to 200 psi 0 to 200 psi S, REFERENCE ADJU PRESSURE CONNEC 0 to 500 psi S, FIXED DEADBAND JECTION 30 inHg vac. to 20 psi 0 to 30 psi 0 to 100 psi 0 to 200 psi S, FIXED DEADBAND, 0 to 500 psi S, REFERENCE ADJU BRASS PRESSURE CO 30 inHg vac to 20 psi 0 to 30 psi 0 to 100 psi	0 to 6.9 bar 0 to 13.7 bar STMENT, FIXED DEATION 0 to 34 bar , SEALED BRASS BE -1 to 1.4 bar 0 to 2 bar 0 to 6.9 bar 0 to 13.7 bar WELDED 316L SS BE 0 to 34.5 bar STMENT, FIXED DEAD NNECTION -1 to 1.4 bar 0 to 2 bar 0 to 6.9 bar 0 to 6.9 bar 0 to 6.9 bar 0 to 13.7 bar	0.4 to 1.6 psi 0.6 to 4 psi ADBAND, WELDED 3 6 to 18 psi ELLOWS, ¼ FNPT NIC 0.4 to 2.4 inHg 0.2 to 1.2 psi 0.4 to 1.6 psi 0.6 to 4 psi LLOWS, ¼ FNPT 316L 6 to 8 psi DBAND, SEALED BRA 0.4 to 2.4 inHg 0.2 to 1.2 psi 0.4 to 1.6 psi 0.6 to 4 psi	125 psi 200 psi 200 psi 16L SS BELLOWS, 575 psi EKEL-PLATED BRASS 25 psi 40 psi 125 psi 200 psi SS PRESSURE CONN 575 psi ASS BELLOWS, ¼ FNP 25 psi 40 psi 125 psi 200 psi	(2)15 A SPDT (2)15 A SPDT (2)15 A SPDT (3)15 A SPDT T (3)15 A SPDT

Comes complete with operator's manual.

Ordering Example: PSW-856CJ, control switch with 3 setpoints, reference dial, sealed brass bellows, 1/4 FNPT fitting and range of 0 to 30 psi.

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PRESSURE SWITCH

7 to 250 psi 0.25 A SPDT Switch

PSW845 Series





PSW845-1 shown actual size.

The PSW845 is a rugged differential pressure switch, with excellent bypass characteristics. It is able to handle a variety of media to 6000 psig. The PSW845 can be mounted in any orientation, and is capable of withstanding light to moderate mechanical shock and vibratory loads.

SPECIFICATIONS

Switch: SPDT, rated 0.25 A @

120 Vac/175 Vdc

Pressure Ratings:

Vacuum: to 6000 psig

Differential Pressure: to 2000 psid

Proof: 9000 psig

Wetted Parts: Steel spring, anodized aluminum piston, body and fitting, Buna seal, Loctite #271 sealing compound

Fitting: 1/4-18 NPT female

Electrical Connection: 300 mm (12")

pigtail leads, 24 AWG

Ambient Temperature: -54 to 107°C (-65 to 225°F); setpoint change of up to 2% of sensor capacity may be anticipated when switch is used below -23°C or above 52°C

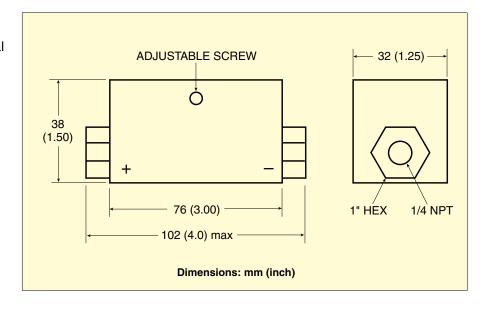
Cycling: Not to exceed 20 cycles/min

Dimensions:

102 L x 38.1 H x 31.8 mm D

(4 x 1.5 x 1.25")

Weight: Approx 241 g (8.5 oz)



To Order								
	ADJUSTABLE I	RANGE (psid)						
MODEL NO.	DECREASING	INCREASING	REPEATABILITY					
PSW845-1	2 to 7	7 to 13	±2 psi					
PSW845-2	5 to 16	13 to 25	±4 psi					
PSW845-3	10 to 21	25 to 45	±8 psi					
PSW845-4	20 to 80	35 to 160	±16 psi					
PSW845-5	35 to 120	120 to 250	±32 psi					

Comes complete with operator's manual.

Ordering Example: PSW845-3, differential pressure switch with 25 to 45 psi range.

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NPT, BSPT, AND METRIC THREADS—PROTECT YOUR PRESSURE GAGE/ TRANSDUCER FROM PRESSURE SPIKES AND WATERHAMMERS!

PS-8 Series

- Dampens Pressure Spikes in the Process Fluid Before They Reach the Sensor
- ✓ Made of High-Grade Stainless Steel
- Maximum Pressure Rating Up to 10,000 psi (690 bar) for Liquids

If your system has pressure spikes, waterhammers, pressure pulsations from a pump, or rapid pressure changes, using a pressure snubber can significantly prolong the life of your sensors. A pressure snubber dampens the spikes and surges that, over time, will

cause a pressure gage or transducer to fail. The pressure snubber has a porous metal disk that protects your gage/transducer.

Easy to install, the snubber goes between the gage/ transducer and the process. A pressure snubber should be used whenever there is a question about what type of pressure fluctuations a gage/ transducer might experience. PS Series pressure snubbers will fit almost all industrial pressure gages and transducers.



Dimensions								
	HEX FLATS		HEX LENGTH (APPROX)		THREAD LENGTH		OVERALL LENGTH	
SIZE	NPT	BSPT AND METRIC	NPT	BSPT AND METRIC	NPT	BSPT AND METRIC	NPT	BSPT AND METRIC
PS-8	5/8"	17 mm	21/32"	17 mm	¹⁷ /32"	13 mm	1 13/16"	30 mm
PS-4	3/4"	19 mm	31/32"	25 mm	1/2"	13 mm	1 ¹⁵ / ₃₂ "	37 mm
PS-2	11/4"	32 mm	11/4"	32 mm	29/32"	23 mm	2 5/32"	55 mm

To Order							
THREAD		PORE OPENIN	IG mm (inch)	CAP. CFH AT			
MODEL NO.	(M&F)	MEAN	MAXIMUM	1-psi-DIFF. PRESS	FOR USE WITH		
NPT MODEL							
PS-8D	1/8 NPT	0.064 (0.0025)	0.127 (0.005)	6.5	Oil 225 to 500 SSU (10 to 50 SAE)		
PS-8E	1/8 NPT	0.033 (0.0013)	0.064 (0.0025)	3.0	Water and light oil 30 to 225 SSU		
PS-8G	1/8 NPT	0.010 (0.0004)	0.0025 (0.0009)	1.1	Air, steam and gases		
PS-4D	¼ NPT	0.064 (0.0025)	0.127 (0.005)	6.5	Oil 225 to 500 SSU (10 to 50 SAE)		
PS-4E	¼ NPT	0.033 (0.0013)	0.064 (0.0025)	3.0	Water and light oil 30 to 225 SSU		
PS-4G	¼ NPT	0.010 (0.0004)	0.0025 (0.0009)	1.1	Air, steam and gases		
PS-2D	½ NPT	0.064 (0.0025)	0.127 (0.005)	6.5	Oil 225 to 500 SSU (10 to 50 SAE)		
PS-2E	½ NPT	0.033 (0.0013)	0.064 (0.0025)	3.0	Water and light oil 30 to 225 SSU		
PS-2G	½ NPT	0.010 (0.0004)	0.0025 (0.0009)	1.1	Air, steam and gases		
BSPT MODE	LS						
PS-8D-M	1/8-28 BSPT	0.064 (0.0025)	0.127 (0.005)	6.5	Oil 225 to 500 SSU (10 to 50 SAE)		
PS-8E-M	1/8-28 BSPT	0.033 (0.0013)	0.064 (0.0025)	3.0	Water and light oil 30 to 225 SSU		
PS-8G-M	1/8-28 BSPT	0.010 (0.0004)	0.0025 (0.0009)	1.1	Air, steam and gases		
PS-4D-M	1/4-19 BSPT	0.064 (0.0025)	0.127 (0.005)	6.5	Oil 225 to 500 SSU (10 to 50 SAE)		
PS-4E-M	1/4-19 BSPT	0.033 (0.0013)	0.064 (0.0025)	3.0	Water and light oil 30 to 225 SSU		
PS-4G-M	1/4-19 BSPT	0.010 (0.0004)	0.0025 (0.0009)	1.1	Air, steam and gases		
PS-2D-M	½-14 BSPT	0.064 (0.0025)	0.127 (0.005)	6.5	Oil 225 to 500 SSU (10 to 50 SAE)		
PS-2E-M	½-14 BSPT	0.033 (0.0013)	0.064 (0.0025)	3.0	Water and light oil 30 to 225 SSU		
PS-2G-M	½-14 BSPT	0.010 (0.0004)	0.0025 (0.0009)	1.1	Air, steam and gases		
PARALLEL I	METRIC MODE	LS					
PS-8D-MG	½-28 G	0.064 (0.0025)	0.127 (0.005)	6.5	Oil 225 to 500 SSU (10 to 50 SAE)		
PS-8E-MG	½-28 G	0.033 (0.0013)	0.064 (0.0025)	3.0	Water and light oil 30 to 225 SSU		
PS-8G-MG	½-28 G	0.010 (0.0004)	0.0025 (0.0009)	1.1	Air, steam and gases		
PS-4D-MG	½-19 G	0.064 (0.0025)	0.127 (0.005)	6.5	Oil 225 to 500 SSU (10 to 50 SAE)		
PS-4E-MG	½-19 G	0.033 (0.0013)	0.064 (0.0025)	3.0	Water and light oil 30 to 225 SSU		
PS-4G-MG	½-19 G	0.010 (0.0004)	0.0025 (0.0009)	1.1	Air, steam and gases		
PS-2D-MG	½-14 G	0.064 (0.0025)	0.127 (0.005)	6.5	Oil 225 to 500 SSU (10 to 50 SAE)		
PS-2E-MG	½-14 G	0.033 (0.0013)	0.064 (0.0025)	3.0	Water and light oil 30 to 225 SSU		
PS-2G-MG	½-14 G	0.010 (0.0004)	0.0025 (0.0009)	1.1	Air, steam and gases		

Ordarina Evamples: DC_RD_M 1/2 v 1/2 RSDT enumber for ail

VFRY-HIGH-ACCIIRACYRometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it
FRESSURE I RANSDUCER STANDARD AND METRIC MODELS 0 to 5 Vdc Output Cable 4 to 20 mA Output style.

mV/V Output 0-10 to 0-30,000 Psi-Standard Models 0-700 mbar to 0-400 bar-Metric Models

PX01/PXM01 Series





On Request

STANDARD PX01C0-075G5T

shown smaller than actual size.

- 0.05% Linearity
- 5-Point NIST-Traceable Calibration Provided
- **Internal Shunt Resistor for Easy System Checks**
- **Shunt Calibration for Fast System Setup**
- **All Stainless Steel Construction**
- Hermetically Sealed Design for Harsh Environments (Not Gage Units)
- Available in Gage, Absolute, Sealed Gage, psi, and Metric Ranges Cable or Connector Models
- **Optional Pressure Ports to Fit Most Industrial Applications**

OMEGA's PX01/PXM01 Series pressure transducers are very high-accuracy industrial pressure transmitters. Their all stainless steel construction and hermetically sealed case make them suitable for harsh environments. They are true high-accuracy devices, with a "double diaphragm" design for high reliability in industrial areas. A high operating range, a broad compensated range, and excellent temperature compensation that gives stable readings in applications with fluctuating temperatures and harsh applications. NPT and 7/16-20 O-ring seal fittings are available for industrial and hydraulic applications.

SPECIFICATIONS

Excitation:

0 to 5 Vdc Output: 24 to 32 Vdc 4 to 20 mA Output: 10 to 40 Vdc 4 to 20 mA (Lightning protection only): 12 to 40 Vdc

Linearity: mV/V: 0.10% FSO <500 psi 0.05% FSO >=500 psi All other models: 0.05% FSO Hysteresis: 0.05% FSO Repeatability: ±0.05% FSO Shunt Calibration Value: Value specified on calibration sheet

Sensing Element: 4-active-arm bridge, using thick-film strain gages in a hermetically sealed chamber (except gage units)

Operating Temp Range: -46 to 121°C (-50 to 250°F)

mV/V Output: -73 to 163°C (-100 to 325°

Compensated Temp Range: 16 to 71°C (60 to 160°F)

Proof Pressure: 150% of rated pressure **Burst Pressure:** 300% of rated pressure

Wetted Parts: 17-4 PH stainless steel

Pressure Port: See custom

Output:

0 to 5 Vdc Output: ±10% ADJ. 4 to 20 mA Output: 4 to 20 mA ±10%ADJ. mV/V Output: 3 mV/V ±0.25% <500 psi 2.75 mV/V ±0.25% >=500 psi

Zero Balance:

0 to 5 Vdc Output: 0 V ±10% ADJ. 4 to 20 mA: +4 mA +10% -2% ADJ.

mV/V Output: 1.0% FS Thermal Effects:

Span:

mA Output: ±0.003% FSO/°F 5V: ±0.002% FSO/°F mV/V: ±0.0015% FSO/°F

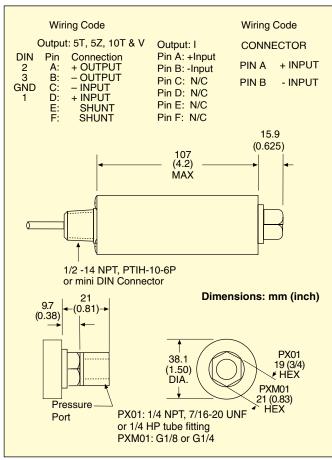
Zero:

mA Output: ±0.003% FSO/°F

5V: ±0.001% FSO/°F mV/V: ±0.0015% FSO/°F **Weight:** 388 g (13.7 oz) **mV/VOutput:** 255 g (9 oz)

Input Resistance (mV/V Output): 350

Output Resistance (mV/V Output): $350 \pm 10 \Omega$



Twist-lock

style.

METRIC PXM01MC1-025BARG5T shown

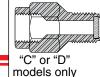
custom configurations chart on next page for ordering details.

smaller than actual size. See

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configurations Mating Connector: PT06F10-6S (sold separately)

VFRV_HIGH_ACCIIRACV_ Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it PKESSUKE IKANSDUCEK **NPT Pressure**



Snubbers: PS-4G = GasPS-4E = Lt Oil **PS-4D** = Dense Lq

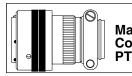
STANDARD CUSTOM CONFIGURATIONS

PX01 PRESSURE ELECTRICAL ISERIES PORT CONNECTION [1] [2]	RANGE (psi) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
Models <10,000 psi C = ½-18 NPT-M D = ½-18 NPT-F J = ½-20 UNF-M K = ½-20 UNF-F Models ≥10,000 psi S = ½ HP tube fitting	002 005 010 015 020 025 050 075 100	S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A	5T = 0 to 5 Vdc 5Z = Isolated 0 to 5Vdc 10T = 0 to 10 Vdc I = 4 to 20 mA V = mV/V output	OL = Overload stops + additional cost OX = Cleaned for oxygen use + additional cost plus 2 weeks Ontional cost plus
0 = 3 m (10') cable (std) + add cost/ft over 3 m (10') 1 = PTIH-10-6P connector (or equal) Mating connector	150 200 250 300 500 750	S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A		()ft = Optional cable length in feet + additional cost/ft over 10 feet
(sold separately), order PT06F10-6S 6 = mini DIN connector *no shunt cal	1K 1.5K 2K 3K	S,G,A S,G,A S,G,A S,G,A	To order a custor1. Select a pressur2. Select electrical3. Select a pressur	re port connection re range
5 = Lightning-protected amplifier box (4 to 20 mA models only)	5K 7.5K	S,G,A S,G,A S,G,A	4. Select pressure5. Select output6. Select options	units
For additional options including extended compensated temperatures, visit us online	10K† 20K† 30K†	S,G,A S,G,A S,G,A	† Supplied with ¼ HP t 2 and 5 psi ranges output	ube fitting. available only on amplified

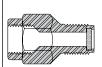
Ordering Examples: PX01C1-100GV, 100 psi gage pressure transducer with 1/4-18 NPT male fitting, PTIH-10-6P, connector and mV/V output. PX01J1-015AI, 15 psi absolute pressure transducer with 7/16-20 UNF male fitting, PTIH-10-6P, connector and a 4 to 20 mA Vdc output. PX01C1-100G5T, 100 psi gage pressure transducer with 1/4-18 NPT male fitting, PTIH-10-6P, connector and 0 to 5 Vdc output. PXO1KO-1KS5Z,1000 psi sealed gage pressure transducer with 7/16-20 UNF female fitting, 3m(10') cable, isolated 0 to 5 Vdc output. PXO1J1-015A5T, 15 psi absolute pressure transducer with 7/16-20 UNF male fitting, PTIH-10-6P, connector, 0 to 5 Vdc output. PTO6F10-6S, mating connector (sold separately).

METRIC CUSTOM CONFIGURATIONS

temperatures, visit us online



Mating Connector PT06F10-6S



G¹/₄ Pressure Snubbers: PS-4G-MG = Gas PS-4E-MG = Lt Oil PS-4D-MG = Dense Liquid

	ANGE BAR) UNITS [3] [4]	OUTPUT OPTIONS [5] [6]
MA = G%B Male MB = G%B Female MC = G%B Male MD = G%B Female 0 = 3 m (10') cable (std)	0.16 S,G,A 5T 0.4 S,G,A 5Z 1.0 S,G,A 107 1.6 S,G,A 1 2.5 S,G,A V 4.0 S,G,A V	= 0 to 5 Vdc
+ add cost/m over 3 m (10') 1 = PTIH-10-6P connector (or equal) Mating connector (sold separately), order PT06F-10-6S 6 = mini DIN connector* *no shunt cal For additional options including extended compensated	10 S,G,A 16 S,G,A 25 S,G,A 40 S,G,A 60 S,G,A 100 S,G,A 160 S,G,A 250 S,G,A 400 S,G,A	To order a custom configuration: 1. Select a pressure port 2. Select electrical connection 3. Select a pressure range 4. Select pressure units 5. Select output 6. Select options

Ordering Examples: PXM01MB0-010BARSI, 10 bar sealed gage pressure transducer with G 1/8 B female connection, 3 m (10') cable termination, and 4 to 20 mA output.

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it m(10') cable termination. **PT06F10-6S**, mating connector (sold separately).

VERY-HIGH-ACCURACYRometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it - IRANSDUCER

STANDARD MODELS





PXM01MC6-010BARG5T shown smaller than actual size.



ACCESSORY

MODEL NO. DESCRIPTION

PT06F10-6S

Mating connector for PX01/PXM01 transducers with twistlock connector

To Order							
RANGE psi	bar	%-20 UNF MODEL NO.	¼ NPT MODEL NO.	COMPATIBLE METERS*			
Connector S	Style – Abso	lute Pressure (All Ra	nges Available in Abs	olute Pressure)			
0 to 10	0 to 0.69	PX01K1-010A5T	PX01C1-010A5T	DP41-E, DP25B-E			
0 to 15	0 to 1.0	PX01K1-015A5T	PX01C1-015A5T	DP41-E, DP25B-E			
0 to 20	0 to 1.4	PX01K1-020A5T	PX01C1-020A5T	DP41-E, DP25B-E			
0 to 25	0 to 1.7	PX01K1-025A5T	PX01C1-025A5T	DP41-E, DP25B-E			
0 to 50	0 to 3.4	PX01K1-050A5T	PX01C1-050A5T	DP41-E, DP25B-E			
Connector S	Style – Gage	Pressure (All Range	s Also Available in Se	aled Gage Pressure)			
0 to 2	0 to 0.14	PX01K1-002G5T	PX01C1-002G5T	DP41-E, DP25B-E			
0 to 5	0 to 0.34	PX01K1-005G5T	PX01C1-005G5T	DP41-E, DP25B-E			
0 to 10	0 to 0.69	PX01K1-010G5T	PX01C1-010G5T	DP41-E, DP25B-E			
0 to 15	0 to 1.0	PX01K1-015G5T	PX01C1-015G5T	DP41-E, DP25B-E			
0 to 50	0 to 3.4	PX01K1-050G5T	PX01C1-050G5T	DP41-E, DP25B-E			
0 to 75	0 to 5.2	PX01K1-075G5T	PX01C1-075G5T	DP41-E, DP25B-E			
0 to 100	0 to 6.9	PX01K1-100G5T	PX01C1-100G5T	DP41-E, DP25B-E			
0 to 200	0 to 13.8	PX01K1-200G5T	PX01C1-200G5T	DP41-E, DP25B-E			
0 to 300	0 to 20.7	PX01K1-300G5T	PX01C1-300G5T	DP41-E, DP25B-E			
0 to 500	0 to 34.5	PX01K1-500G5T	PX01C1-500G5T	DP41-E, DP25B-E			
0 to 1000	0 to 68.9	PX01K1-1KG5T	PX01C1-1KG5T	DP41-E, DP25B-E			
0 to 1500	0 to 103	PX01K1-1.5KG5T	PX01C1-1.5KG5T	DP41-E, DP25B-E			
0 to 2000	0 to 138	PX01K1-2KG5T	PX01C1-2KG5T	DP41-E, DP25B-E			
0 to 3500	0 to 241	PX01K1-3.5KG5T	PX01C1-3.5KG5T	DP41-E, DP25B-E			
0 to 5000	0 to 345	PX01K1-5KG5T	PX01C1-5KG5T	DP41-E, DP25B-E			
0 to 7500	0 to 517	PX01K1-7.5KG5T	PX01C1-7.5KG5T	DP41-E, DP25B-E			
0 to 10,000**	0 to 689	PX01S1-10KG5T†	PX01S1-10KG5T†	DP41-E, DP25B-E**			
0 to 20,000**	0 to 1379	PX01S1-20KG5T†	PX01S1-20KG5T†	DP41-E, DP25B-E**			
0 to 30,000**	0 to 2068	PX01S1-30KG5T†	PX01S1-30KG5T†	DP41-E, DP25B-E**			

Comes complete with 5-point NIST-traceable calibration. * Visit us online for compatible meters. ** 4-digit meter, counts in increments of 10. $\dagger \frac{1}{4}$ HP tube fitting

To order absolute pressure, replace "**G**" in model number with "**A**" and add cost to price. To order sealed gage units, replace "**G**" in model number with "**S**" (no extra charge). Ordering Examples: PX01K1-1KG5T, 1000 psi gage transducer with 0 to 5V output, twist-lock connector and $\frac{7}{16}$ -20 UNF female pressure connection. PT06F10-6S, mating connector (sold separately). PX01C0-010G5T, 10 psi gage transducer with 0 to 5V output, 3 m (10') cable and $\frac{1}{4}$ NPT male pressure connection.

METRIC MODELS

RANGE		G ¼ FEMALE MODEL NO.	COMPATIBLE METERS*
Connector St	yle		
0 to 0.16 bar	0 to 2.32 psi	PXM01MD0-160mBARG5T	DP41-E, DP25B-E
0 to 0.4 bar	0 to 5.8 psi	PXM01MD0-400mBARG5T	DP41-E, DP25B-E
0 to 1 bar	0 to 15 psi	PXM01MD0-001BARG5T	DP41-E, DP25B-E
0 to 1.60 bar	0 to 23 psi	PXM01MD0-1.60BARG5T	DP41-E, DP25B-E
0 to 2.50 bar	0 to 36 psi	PXM01MD0-2.50BARG5T	DP41-E, DP25B-E
0 to 4 bar	0 to 58 psi	PXM01MD0-004BARG5T	DP41-E, DP25B-E
0 to 6 bar	0 to 87 psi	PXM01MD0-006BARG5T	DP41-E, DP25B-E
0 to 10 bar	0 to 145 psi	PXM01MD0-010BARG5T	DP41-E, DP25B-E
0 to 16 bar	0 to 232 psi	PXM01MD0-016BARG5T	DP41-E, DP25B-E
0 to 25 bar	0 to 363 psi	PXM01MD0-025BARG5T	DP41-E, DP25B-E
0 to 40 bar	0 to 580 psi	PXM01MD0-040BARG5T	DP41-E, DP25B-E
0 to 60 bar	0 to 870 psi	PXM01MD0-060BARG5T	DP41-E, DP25B-E
0 to 100 bar	0 to 1450 psi	PXM01MD0-100BARG5T	DP41-E, DP25B-E
0 to 160 bar	0 to 2321 psi	PXM01MD0-160BARG5T	DP41-E, DP25B-E
0 to 250 bar	0 to 3626 psi	PXM01MD0-250BARG5T	DP41-E, DP25B-E
0 to 400 bar	0 to 5802 psi	PXM01MD0-400BARG5T	DP41-E, DP25B-E

Comes complete with 5-point NIST traceable calibration. * Visit us online for compatible meters. To order absolute pressure models, replace "G" in model number with "A" and add cost to price. To order sealed gage models, replace "G" in model number to "S" (no extra charge). To order male thread, see Custom Configurations on next page.

Ordering Examples: PXM01MD6-004BARG5T, 4 bar gage transducer with 0 to 5 V output, mini DIN connector and G½ female pressure connection. Mating connector included. PXM01MD0-1.60BARA5T, 1.6 bar absolute transducer with 0 to 5 V output, 3 m (10') cable with $\frac{1}{2}$ NPT conduit fitting and $G^{1/2}$ female pressure connection.

LICLIA COLLA COLLA COLLA COLLA CALLA CALL



4 to 20 mA Output 0-2 to 0-30,000 psi 0-150 mbar to 0-2000 bar

1 bar = 14.5 psi1 kg/cm² = 14.22 psi 1 atmosphere = 14.7 psi = 29.93 inHg = 760.2 mmHg = 1.014 bar





PX02K5-050GI, shown smaller than actual size.

PX02 SERIES





Standard On Request

- ✓ High-Accuracy, NIST-**Traceable Calibration**
- ✓ FM Intrinsically Safe, Standard
- ✓ All Stainless Steel Construction
- Hermetically Sealed Design for Harsh **Environments**
- Available in Gage, Absolute, Sealed Gage, psi, and Metric Ranges
- ✓ Optional Pressure Ports to Fit Most Industrial **Applications**

OMEGA's PX02 Series comprises high-accuracy industrial pressure transmitters. All stainless steel construction and a sealed case make the PX02 suitable for harsh environments. FM Intrinsically Safe approvals are standard. A broad temperature-compensated range of 16 to 71°C (60 to 160°F) and a high operating range to 121°C (250°F) provide stability in applications with fluctuating temperatures.

The PX02 is available in gage, absolute, or sealed models, as well as in psi or metric ranges.

To Order								
Models with 1/10-20 UNF Connection/Amplifier Housing								
RANGE		MODEL NO.	COMPATIBLE METERS†					
ABSOLUTE PRE	SSURE (All Ra	nges Available in	Absolute Pressure)					
0 to 10 psi	0 to 0.69 bar	PX02K5-010AI	DP41-E, DP25B-E, DP24-E					
0 to 15 psi	0 to 1.0 bar	PX02K5-015AI	DP41-E, DP25B-E, DP24-E					
0 to 20 psi	0 to 1.4 bar	PX02K5-020AI	DP41-E, DP25B-E, DP24-E					
0 to 25 psi	0 to 1.7 bar	PX02K5-025AI	DP41-E, DP25B-E, DP24-E					
0 to 50 psi	0 to 3.4 bar	PX02K5-050AI	DP41-E, DP25B-E, DP24-E					
GAGE PRESSUR	E (All Ranges	Also Available in	Sealed Gage Pressure)					
0 to 2 psi	0 to 0.14 bar	PX02K5-002GI	DP41-E, DP25B-E, DP24-E					
0 to 5 psi	0 to 0.34 bar	PX02K5-005GI	DP41-E, DP25B-E, DP24-E					
0 to 10 psi	0 to 0.69 bar	PX02K5-010GI	DP41-E, DP25B-E, DP24-E					
0 to 15 psi	0 to 1.0 bar	PX02K5-015GI	DP41-E, DP25B-E, DP24-E					
0 to 50 psi	0 to 3.4 bar	PX02K5-050GI	DP41-E, DP25B-E, DP24-E					
0 to 75 psi	0 to 5.2 bar	PX02K5-075GI	DP41-E, DP25B-E, DP24-E					
0 to 100 psi	0 to 6.9 bar	PX02K5-100GI	DP41-E, DP25B-E, DP24-E					
0 to 200 psi	0 to 13.8 bar	PX02K5-200GI	DP41-E, DP25B-E, DP24-E					
0 to 300 psi	0 to 20.7 bar	PX02K5-300GI	DP41-E, DP25B-E, DP24-E					
0 to 500 psi	0 to 34.5 bar	PX02K5-500GI	DP41-E, DP25B-E, DP24-E					
0 to 1000 psi	0 to 68.9 bar	PX02K5-1KGI	DP41-E, DP25B-E, DP24-E					
0 to 1500 psi	0 to 103 bar	PX02K5-1.5KGI	DP41-E, DP25B-E, DP24-E					
0 to 2000 psi	0 to 138 bar	PX02K5-2KGI	DP41-E, DP25B-E, DP24-E					
0 to 3500 psi	0 to 241 bar	PX02K5-3.5KGI	DP41-E, DP25B-E, DP24-E					
0 to 5000 psi	0 to 345 bar	PX02K5-5KGI	DP41-E, DP25B-E, DP24-E					
0 to 7500 psi	0 to 517 bar	PX02K5-7.5KGI	DP41-E, DP25B-E, DP24-E					
0 to 10,000** psi	0 to 689 bar	PX02S5-10KGI	DP41-E, DP25B-E, DP24-E					
0 to 20,000** psi	0 to 1379 bar	PX02S5-20KGI	DP41-E, DP25B-E*, DP24-E*					
0 to 30,000** psi	0 to 2068 bar	PX02S5-30KGI	DP41-E, DP25B-E*, DP24-E*					

Comes complete with 5-point NIST traceable calibration. Metric ranges available - consult Engineering.

Metric ranges available – consult Engineering.

* 4-digit meter, counts in increments of 10. *** ¼ HP tube fitting. † Visit us online for compatible meters. For absolute pressure, replace "G" in model number with "A", add cost ≤100 psi. For sealed gage pressure, replace "G" in model number with "S" (no charge unless indicated).

Ordering Examples: PX02K5-1KGI, 1000 psi gage transducer with 4 to 20 mA output, amplifier housing connections and √16-20 UNF female pressure connection.

PX02K5-015AI, 15 psi absolute transducer with 4 to 20 mA output, amplifier housing connections and √16-20 UNF female pressure connection.

LIGHTNING-PROTECTED AMPLIFIER HOUSING

SPECIFICATIONS

Excitation: 12 to 40 Vdc
Output: 4 to 20 mA ±10% adj
Zero Balance: 4 mA +10% -2% adj
Agency Approvals: FM Intrinsically
Safe IS/I.II.III/1/CDEFG standard

Linearity: ±0.15% FS Hysteresis: ±0.1% FS Repeatability: ±0.05% FS

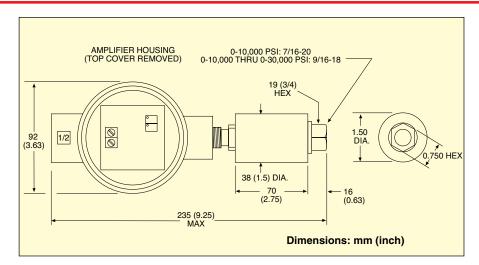
Sensing Element: 4-active-arm bridge, using thick-film strain gages in a hermetically sealed chamber

Operating Temp Banger

Operating Temp Range: -46 to 121°C (-50 to 250°F) Compensated Temp Range: 16 to 71°C (60 to 160°F)

Thermal Effects: Span: 0.005% of rdg/°F Zero: 0.005% of FS/°F

Proof Pressure: 150% of rated pressure Burst Pressure: 300% of rated pressure Wetted Parts: 17-4 PH SS



Pressure Port: Ranges <10000 psi: ½-6-20 UNF female, ½-18 NPT M/F or ½-6-20 UNF-2A male. ≥10K psi: ½-18, ½" HP tube.

Electrical Connection: Lightning-protected, explosion-proof amplifier box

CUSTOM CONFIGURATIONS

г					
	PX02 PRESSURE ELECTICONNE [1] [2 Models <10,000 psi C = ½-18 NPT-M + cost D = ½-18 NPT-F, no charge J = ½-20 UNF-M + cost	CTION (psi) [3] 002* 005* 010	UNITS [4] S,G,A S,G,A S,G,A	OUTPUT [5] PX02 50 to 7500 psi less than 50 psi over 7500 psi	OPTIONS [6] OL = Overload stops + cost OX = Cleaned for
	K = ½6-20 UNF-F, no charge Models ≥10,000 psi S = ½ HP tube fitting no charge	015 020 025 050 075	S,G,A S,G,A S,G,A S,G,A	over 7500 psi Add additional cost for absolute pressure ranges I = 4 to 20 mA output	oxygen use + cost plus 2 weeks
	0 = 3 m (10') cable + cost/.3 m (ft 3 m (10') 1 = PTIH-10-6P co (or equal, no c Mating connect separately), or PT06F10-6S	t) over 200 200 connector 250 charge). 300 ctor (sold 750 der 1K	S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A	* 2 and 5 psi ranges availabl † Supplied with ¼ HP tube fit	ting.
	5 = Lightning-prote amplifier box (i (4 to 20 mA mo	no charge) 2K 3K 3.5K 5K 7.5K 10K† 20K†	S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A	To order a cu 1. Select a pre 2. Select elect 3. Select a pre 4. Select press 5. Select output	rical connection essure range sure units

Ordering Examples: PX02C5-100GI, 100 psi gage pressure transducer with 1/4-18 NPT male fitting, lightning protected amplifier box and 4 to 20 mA output.

PX02K5-1KSI, 1000 psi sealed gage pressure transducer, with 7/16-20 UNF female fitting, lightning protected amplifier box and 4 to 20 mA output.

PX02J5-015AI, 15 psi absolute pressure transducer with, $7/_{16}$ -20 UNF male fitting, lightning protected amplifier box and 4 to 20 mA output. **PX02K5-025GI,** 25 psi gage pressure transducer with $7/_{16}$ -20 UNF female fitting, lightning protected amplifier box, 4 to 20 mA output. 0 to 5 Vdc Output 0-2 to 0-30,000 psi-Standard Models



PRESSI

VOLTAGE OUTPUT PRE TRANSDUCERS

Cable style.

PX02/PXM02 Series





- All Stainless Steel Construction
- Available in Gage, Absolute, Sealed Gage, psi, and Metric Ranges
- ✓ Cable, Connector Models or Mini DIN
- ✓ Optional Pressure Ports to Fit Most **Industrial Applications**

OMEGA's PX02/PXM02 are high-accuracy, amplified voltage output, industrial pressure transducers. All stainless steel construction and a hermetically sealed case make the PX02/PXM02 suitable for harsh industrial environments. They are a true high-accuracy industrial device.

SPECIFICATIONS

Excitation: 24 to 32 Vdc

Output: 0 to 5 Vdc ±10% adjustable

Linearity: ±0.15% FSO Hysteresis: ±0.1% FSO Repeatability: ±0.05% FSO Zero Balance: 0 V ±10% adj

Sensing Element: 4-active-arm bridge, using thick-film strain gages in a hermetically sealed chamber (except gage units) Shunt Calibration Value: Specified on calibration sheet Operating Temp Range: -46 to 121°C (-50 to 250°F) Compensated Temp Range: 16 to 71°C (60 to 160°F) Thermal Effects:

Span: 0.003% of rdg/°F **Zero:** 0.003% of FSO/°F

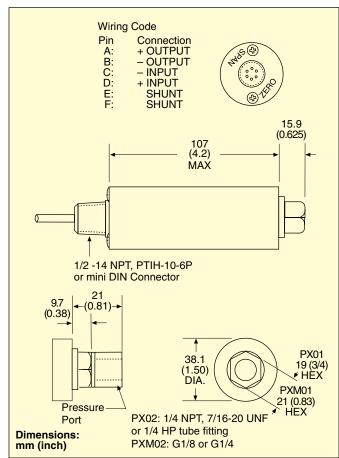
Proof Pressure: 150% of rated pressure Burst Pressure: 300% of rated pressure Wetted Parts: 17-4 PH stainless steel Pressure Port: See custom configurations **Electrical Connection:** See custom configurations

Mating Connector: (Style 1) PT06F10-6S (sold separately)

PX02C0-100G5T shown smaller

than actual size.

Weight: 388 g (13.7 oz)



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ALL STAINLESS STEEL TRANSDUCER



1/4 NPT Pressure Snubbers: PS-4G = Gas **PS-4G** = Lt Oil

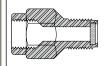
STANDARD CUSTOM CONFIGURATIONS

SERIES	RANGE (psi) [3] 002 005 010 015 020 025 050 075 100 150 200 250 300 500 750 1K	UNITS [4] S,G,A,A,A,A,A,A,A,A,A,A,A,A,A,A,A,A,A,A,	OUTPUT [5] 5T = 0 to 5 Vdc output 5Z = Isolated 0 to 5 Vdc 10T= 0 to 10 Vdc output	OPTIONS [6] OL = Overload stops + additional cost (when available) OX = Cleaned for oxygen use + additional cost plus 2 weeks ()ft = Optional cable length in feet + add cost/ft over 10 feet
PT06F10-6S 6 = mini DIN connector* * no shunt cal	1.5K 2K 3K 3.5K 5K 7.5K	S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A		Mating Connector PT06F10-6S
For additional options including extended compensated temperatures, visit us online.	10K† 20K† 30K†	S,G,A S,G,A S,G,A	† Supplied with ¼ HP tube fitti	ng.

Ordering Examples: PX02C1-100G5T, 100 psi gage pressure transducer with $\frac{1}{4}$ -18 NPT male fitting, PTIH-10-6P, connector, and 0 to 5V output. PT06F10-6S, mating connector (sold separately). PX02K0-1KS5Z, 1000 psi sealed gage pressure transducer with $\frac{7}{16}$ -20 UNF female fitting, 3 m (10') cable and isolated 0 to 5 Vdc output. PX02J1-015A5T, 15 psi absolute pressure transducer with $\frac{7}{16}$ -20 UNF male fitting, PTIH-10-6P, connector and 0 to 5 Vdc output. PT06F10-6S mating connector (sold separately).

To order a custom configuration:

- 1. Select a pressure port
- 2. Select electrical connection
- 3. Select a pressure range
- 4. Select pressure units
- 5. Select output
- 6. Select options



G¹/₄ Pressure Snubbers: PS-4G-MG = Gas**PS-4E-MG** = Lt Oil

PS-4D-MG = Dense

Liquid

METRIC CUSTOM CONFIGURATIONS

PXM02 SERIES MA = G1/45 MB = G1/45 MC = G1/45 MD = G1/45	3 Female 3 Male	ELECTRICAL CONNECTION [2]	RANGE (BAR) [3] 0.16 0.4 1.0 1.6 2.5 4.0	UNITS [4] S,G,A S,G,A S,G,A S,G,A	OUTPUT [5] 5T = 0 to 5 Vdc 5Z = Isolated 0 to 5 Vdc 10T= 0 to 10 Vdc output	OPTIONS [6] OX = Cleaned for oxygen service OL = Overload stops ()m = Optional cable length in meters + add cost/m
	+ add c 1 = PTIH-10 (or equal Mating (sold se PT06F1	connector eparately), order 0-6S N connector*	6.0	S,G,A S,G,A,A S,G,G,A,A S,G,G,G,A,A S,G,G,A,A S,G,G,A,A S,G,A		over 3 m
		including extended tures, visit us onlin				

Ordering Examples: PXM02MB0-010BARS5T. 10 bar sealed gage pressure transducer with G¹/₈B female connection and 3 m (10') cable termination.

PXM02MD1-010BARAV, 10 bar absolute pressure transducer with G1/4B female connection and twist-lock 6 pin connector. PT06F10-6S, mating connector (sold separately).

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To Order				
RANGE		⁷ ∕ ₁₆ -20 UNF MODEL NO.	¼ NPT MODEL NO.	COMPATIBLE METERS†
ABSOLUTE PRESSI	JRE (All Ranges Availal	ole in Absolute Pressure)		
0 to 10 psi	0 to 0.69 bar	PX02K1-010A5T	PX02C1-010A5T	DP41-E, DP25B-E
0 to 15 psi	0 to 1.0 bar	PX02K1-015A5T	PX02C1-015A5T	DP41-E, DP25B-E
0 to 20 psi	0 to 1.4 bar	PX02K1-020A5T	PX02C1-020A5T	DP41-E, DP25B-E
0 to 25 psi	0 to 1.72 bar	PX02K1-025A5T	PX02C1-025A5T	DP41-E, DP25B-E
0 to 50 psi	0 to 3.4 bar	PX02K1-050A5T	PX02C1-050A5T	DP41-E, DP25B-E
GAGE PRESSURE (All Ranges Also Availab	ole in Sealed Gage Pressure)		
0 to 2 psi	0 to 0.14 bar	PX02K1-002G5T	PX02C1-002G5T	DP41-E, DP25B-E
0 to 5 psi	0 to 0.34 bar	PX02K1-005G5T	PX02C1-005G5T	DP41-E, DP25B-E
0 to 10 psi	0 to 0.69 bar	PX02K1-010G5T	PX02C1-010G5T	DP41-E, DP25B-E
0 to 15 psi	0 to 1.0 bar	PX02K1-015G5T	PX02C1-015G5T	DP41-E, DP25B-E
0 to 50 psi	0 to 3.4 bar	PX02K1-050G5T	PX02C1-050G5T	DP41-E, DP25B-E
0 to 75 psi	0 to 5.2 bar	PX02K1-075G5T	PX02C1-075G5T	DP41-E, DP25B-E
0 to 100 psi	0 to 6.9 bar	PX02K1-100G5T	PX02C1-100G5T	DP41-E, DP25B-E
0 to 200 psi	0 to 13.8 bar	PX02K1-200G5T	PX02C1-200G5T	DP41-E, DP25B-E
0 to 300 psi	0 to 20.7 bar	PX02K1-300G5T	PX02C1-300G5T	DP41-E, DP25B-E
0 to 500 psi	0 to 34.5 bar	PX02K1-500G5T	PX02C1-500G5T	DP41-E, DP25B-E
0 to 1000 psi	0 to 68.9 bar	PX02K1-1KG5T	PX02C1-1KG5T	DP41-E, DP25B-E
0 to 1500 psi	0 to 103 bar	PX02K1-1.5KG5T	PX02C1-1.5KG5T	DP41-E, DP25B-E
0 to 2000 psi	0 to 138 bar	PX02K1-2KG5T	PX02C1-2KG5T	DP41-E, DP25B-E
0 to 3500 psi	0 to 241 bar	PX02K1-3.5KG5T	PX02C1-3.5KG5T	DP41-E, DP25B-E
0 to 5000 psi	0 to 345 bar	PX02K1-5KG5T	PX02C1-5KG5T	DP41-E, DP25B-E
0 to 7500 psi	0 to 517 bar	PX02K1-7.5KG5T	PX02C1-7.5KG5T	DP41-E, DP25B-E
0 to 10,000 psi**	0 to 689 bar	PX02S1-10KG5T**	PX02S1-10KG5T**	DP41-E, DP25B-E*
0 to 20,000 psi**	0 to 1379 bar	PX02S1-20KG5T**	PX02S1-20KG5T**	DP41-E, DP25B-E*
0 to 30,000 psi**	0 to 2068 bar	PX02S1-30KG5T**	PX02S1-30KG5T**	DP41-E, DP25B-E*

Comes complete with 5-point NIST-traceable calibration.

To order absolute pressure, replace "G" in model number with "A" and add **cost** to price.
To order sealed gage units, replace "G" in model number with "S" (no extra charge).

Ordering Examples: PX02K1-1KG5T, 1000 psi gage transducer with 0 to 5 V output, twist-lock 6 pin connector and 7/16-20 UNF female pressure connection. PT06F10-6S, mating connector (sold separately).

PX02C0-010G5T, 10 psi gage transducer with 0 to 5 V output, 3 m (10') cable and 1/4 NPT male pressure connection.

METRIC MODELS

Models with G ¼ Female Pressure Connection, Cable or Connector and 5 V Output								
RANGE		MODEL NO.	COMPATIBLE METERS†					
GAGE PRESSU	JRE							
0 to 0.16 bar	0 to 2.3 psi	PXM02MD0-160BARG5T	DP41-S, DP25B-S					
0 to 0.4 bar	0 to 5.8 psi	PXM02MD0-400BARG5T	DP41-S, DP25B-S					
0 to 1 bar	0 to 15 psi	PXM02MD0-001BARG5T	DP41-S, DP25B-S					
0 to 1.60 bar	0 to 23 psi	PXM02MD0-1.60BARG5T	DP41-S, DP25B-S					
0 to 2.50 bar	0 to 58 psi	PXM02MD0-2.50BARG5T	DP41-S, DP25B-S					
0 to 4 bar	0 to 87 psi	PXM02MD0-004BARG5T	DP41-S, DP25B-S					
0 to 6 bar	0 to 145 psi	PXM02MD0-006BARG5T	DP41-S, DP25B-S					
0 to 10 bar	0 to 232 psi	PXM02MD0-010BARG5T	DP41-S, DP25B-S					
0 to 16 bar	0 to 363 psi	PXM02MD0-016BARG5T	DP41-S, DP25B-S					
0 to 25 bar	0 to 580 psi	PXM02MD0-025BARG5T	DP41-S, DP25B-S					
0 to 40 bar	0 to 870 psi	PXM02MD0-040BARG5T	DP41-S, DP25B-S					
0 to 60 bar	0 to 1450 psi	PXM02MD0-060BARG5T	DP41-S, DP25B-S					
0 to 100 bar	0 to 2321 psi	PXM02MD0-100BARG5T	DP41-S, DP25B-S					
0 to 160 bar	0 to 3626 psi	PXM02MD0-160BARG5T	DP41-S, DP25B-S					
0 to 250 bar	0 to 5802 psi	PXM02MD0-250BARG5T	DP41-S, DP25B-S					
0 to 400 bar	0 to 8702 psi	PXM02MD0-400BARG5T	DP41-S, DP25B-S					

Comes complete with 5-point NIST-traceable calibration. † Visit us online for compatible meters. To order absolute pressure models, replace "G" in model number with "A" and add **cost** to price. To order sealed gage models, replace "G" in model number with "S" (no extra charge). To order female thread, see custom configurations below.

Ordering Examples: PXM02MD6-004BARG5T, 4 bar gage transducer with 0 to 5V output, mini DIN connector and G1/4 female pressure connection. Mating connector included. PXM02MD0-001BARA5T, 1 bar absolute transducer with 0 to 5 V output, 3 m (10') cable and $G^{1}/_{4}$ female pressure connection.



† Visit us online for compatible meters.

PXM02MC6-010BARG5T

shown actual size.

^{* 4-}digit meter, counts in increments of 10. ** 1/4HP tube fitting pressure port.

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0 to 5 Vdc or 4 to 20 mA Output 3 Ranges Available 16 to 32 inHg – 542 to 1084 hPa 26 to 32 inHg – 880 to 1084 hPa 28 to 32 inHg – 948 to 1084 hPa

STANDARD PX02K1-26A5T shown smaller than actual size.

Twist-lock style.

Cable

style.

PXM02MD0-541mBARA5T-MB

with optional mounting bracket.

shown smaller than actual size.

PX02/PXM02 Series



- High Accuracy
- ✓ Broad Compensated Temperature Range -18 to 66°C (0 to 150°F)
- All Stainless Steel Construction
- Hermetically Sealed for Harsh Environments
- ✓ Cable or Connector Models
- Mounting Bracket Option
- Optional Pressure Ports to Fit Most Industrial Applications

OMEGA's PX02 electronic barometer is a high-accuracy electronic barometer available in three ranges: 16 to 32 inHg, 26 to 32 inHg, or 28 to 32 inHg (absolute pressure) for laboratory or industrial test applications.

SPECIFICATIONS

0 to 5 V Model

Input, Recommended: 24 to 32 Vdc

Input, Maximum: 32 Vdc Output, FS: 0 to 5 Vdc Linearity: ±0.15% FS Hysteresis: ±0.1% FS Repeatability: ±0.05% FS

Zero Balance: 0 ±10% FS, adjustable

Thermal Effects:

Span: 0.005% rdg/°F (0.009%/°C) **Zero:** 0.005% FS/°F (0.009%/°C)

4 to 20 mA Model

Input, Recommended: 10 to 40 Vdc

Available with Optional Mounting Bracket

Input, Maximum: 40 Vdc
Output, FS: 4 to 20 mA
Accuracy: 0.25% FS, linearity,
hysteresis and repeatability combined
Zero Balance: 4 mA +10% -2% FS adj
Thermal Effects:

Span: 0.005% rdg/°F (0.009%/°C) **Zero:** 0.005% FS/°F (0.009%/°C)

COMMON SPECIFICATIONS

Operating Temp Range: -47 to 121°C

(-50 to 250°F)

Compensated Temp Range: -18 to 66°C (0 to 150°F) Proof Pressure: 150% of rated

pressure

Burst Pressure: 300% of rated

pressure

Wetted Parts: 17-4 PH stainless steel

Pressure Port: See Custom

Configurations

Electrical Connection: PTIH-10-6P or equal; 3 m (10') cable: DIN connector

Mating Connector (Style 1): PT06F10-6S (sold separately)

Weight: 425 g (15 oz)

PX02/PXM02 Barometer with Mounting Bracket PRESSURE PORT ø38. (1.50) PX02: 19 (0.750) HEX (2.06) 16 (0.63) 159 MAX (6.25) ø5.4 (0.213) THRU 2 HOLES \oplus ZERO ADJUST, SPAN ADJUST OTHER SIDE (2.8) \oplus 28.6 (1 1/8) HEX 1/2-14 NPT, PTIH-10-6P or DIN connector PTIH-10-6P or EQUAL 3 m (10') 2-CONDUCTOR SHIELDED PVC CABLE Dimensions: mm (inch) ø = diameter WIRING DIN Voltage Current +Sig Green A +Red -Sig White B -Black -Exc Black **GND** С D +Exc Red Ε Shunt Shunt

ELECTRONIC BAROMETER

PXM02MD0-541mBARA5T-MB cable style, with optional mounting bracket, shown actual size.



STANDARD CUSTOM CONFIGURATIONS

PX02 PORT CONNECTION Barometer [1] [2] C = ½-18 NPT-M 16 D = ½-18 NPT-F 26	RANGE (inHg) [3] 16 to 32 inHg 26 to 32 inHg 28 to 32 inHg	(inHg) UNITS [3] [4] 16 to 32 inHg A 26 to 32 inHg A 28 to 32 inHg A	OUTPUT [5] 5T = 0 to 5 Vdc output I = 4 to 20 mA output	OPTIONS [6] OX = Cleaned for oxygen service OL = Overload stops ()M = Optional cable length in meters -MB = Mounting bracket + additional cost
 1 = PTIH-10-6P connector Mating connector (sold separately), orde PT06F10-6S. 5 = Lightning-protected amplifier box (4 to 20 mA models on 6 = mini DIN connector 	r		To order a cus 1. Select a pres 2. Select electr 3. Select a pres 4. Select press 5. Select outpu 6. Select options	ical connection ssure range ure units t

Ordering Examples: PX02K1-26AI-MB, 26 to 32 inHg calibrated electronic barometer with $\frac{7}{16}$ -20 UNF internal connection, 4 to 20 mA output, twist connector and optional mounting bracket. **PT06F10-6S,** mating connector (sold separately).

PX02 K1-28A5T-MB, 28 to 32 inHg calibrated electronic barometer with 7/16-20 UNF internal connection, 0 to 5 Vdc output and twist connector. **PT06F10-6S**, mating connector (sold separately).

METRIC CUSTOM CONFIGURATIONS

PXM02 PORT CONNE	RICAL RANGE ECTION (hPa) 2] [3]	UNITS [4]	OUTPUT	OPTIONS [6]
	over 3 m (10') connector (or equal) ctor ely), order ected codels only)	A 5T A I	To order a cus 1. Select a pres 2. Select electr 3. Select a pres 4. Select press 5. Select outpu 6. Select option	ical connection ssure range ure units t

Ordering Examples: PXM02MD1-880MBARAI-MB, 880 to 1084 hPa calibrated electronic barometer with $G^{1/4}$ female pressure port, 4 to 20 mA output, twist-lock connector and optional mounting bracket. PT06F10-6S, mating connector (sold separately). PXM02MC0-948A5T-MB, 948 to 1084 hPa calibrated electronic barometer with G¹/₄ male pressure port, 0 to 5 Vdc output and 3 m (10') cable. Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it



Optional mounting bracket.

METRIC

PXM02MD0-541mBARA5T-MB

STANDARD MODELS

To Order					
MODELS WITH 1/10-20 UNF INTERNAL CONNECTION AND TWIST-LOCK CONNECTOR					
	RANGE		BAROMETER		
inHg	hPa	mmHg	MODEL NO.	COMPATIBLE METERS*	
0 TO 5 V OUTPUT					
16 to 32	542 to 1084	406 to 813	PX02K1-16A5T	DP41-E, DP25B-E, DP24-E	
26 to 32	880 to 1084	660 to 813	PX02K1-26A5T	DP41-E, DP25B-E, DP24-E	
28 to 32	948 to 1084	711 to 813	PX02K1-28A5T	DP41-E, DP25B-E, DP24-E	
4 TO 20 mA OUTPUT					
16 to 32	542 to 1084	406 to 813	PX02K1-16AI	DP41-E, DP25B-E, DP24-E	
26 to 32	880 to 1084	660 to 813	PX02K1-26AI	DP41-E, DP25B-E, DP24-E	
28 to 32	948 to 1084	711 to 813	PX02K1-28AI	DP41-E, DP25B-E, DP24-E	

Comes complete with 5-point NIST-traceable calibration.

Ordering Examples: PX02K1-26Al, 26 to 32 inHg calibrated electronic barometer with %6-20 UNF internal connection, 4 to 20 mA output, PTIH-10-6P connector. PT06F10-6S, mating connector (sold separately).

PX02K1-28A5T-MB, 28 to 32 inHg calibrated electronic barometer with %6-20 UNF internal connection, 0 to 5 Vdc output, PTIH-10-6P

connector and optional mounting bracket. PT06F10-6S, mating connector (sold separately).

METRIC MODELS

RAN	GE	BAROMETER	
hPa	mmHg	MODEL NO.	COMPATIBLE METERS*
TO 5 V OUTPU	Т		
541-1084	406-813	PXM02MD0-541mBARA5T	DP41-E, DP25B-E, DP24-E
880-1084	660-813	PXM02MD0-880mBARA5T	DP41-E, DP25B-E, DP24-E
948-1084	711-813	PXM02MD0-948mBARA5T	DP41-E, DP25B-E, DP24-E
TO 20 mA OUT	PUT		
541-1084	406-813	PXM02MD0-541mBARAI	DP41-E, DP25B-E, DP24-E
880-1084	660-813	PXM02MD0-880mBARAI	DP41-E, DP25B-E, DP24-E
948-1084	711-813	PXM02MD0-948mBARAI	DP41-E, DP25B-E, DP24-E

Comes complete with 5-point NIST-traceable calibration.

Ordering Examples: PXM02MD0-541MBARAI-MB, 541 to 1084 hPa calibrated electronic barometer with G1/4 internal thread, 4 to 20 mA output, 3 m (10') cable and the optional mounting bracket.

PXM02MD6-880mBARA5T-MB, 880 to 1084 hPa calibrated electronic barometer with G1/4 internal connection, 0 to 5 Vdc output, mini-DIN connector and the optional mounting bracket. PT06F10-6S, mating connector (sold separately).

OPTION

ORDER SUFFIX	DESCRIPTION
-MB	Mounting Bracket

^{*} Visit omega.com for compatible meters.

^{*} Visit omega.com for compatible meters.

To order different process connections, see custom configurations blow.

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CURRENT OUTPUT TRANSDUCER STANDARD AND METRIC MODELS

%:-20 or ¼ NPT Connections 4 to 20 mA Output 0-2 to 0-30,000 psi-Standard Models 0-150 mbar to 0-400 bar-Metric Models

PX02/PXM02 Series



- High Accuracy
- 5-Point Calibration Provided
- ✓ All Stainless Steel Construction
- Hermetically Sealed Design for Harsh Environments
- Available in Gage, Absolute, Sealed Gage, psi, and Metric Ranges
- ✓ Cable or Connector Models
- Optional Pressure Ports to Fit Most Industrial Applications

OMEGA's PX02/PXM02 are high-accuracy industrial pressure transmitters. All stainless steel construction and a sealed case make the PX02/PXM02 suitable for harsh industrial environments. It is a true high-accuracy industrial device. A broad temperature-compensated range of 16 to 71°C (60 to 160°F) and a high operating range to 121°C (250°F) make these transducers very stable for applications with fluctuating temperatures.

The PX02 is available in gage, absolute, or sealed models, as well as in psi or metric ranges. NPT and %6-20 O-ring seal fittings are available for industrial and hydraulic applications.



SPECIFICATIONS

4 to 20 mA Output

Excitation: 10 to 40 Vdc
Output: 4 to 20 mA ±10% adj
Zero Balance: 4 mA +10% -2% adj

Linearity: ±0.15% FSO Hysteresis: ±0.1% FSO Repeatability: ±0.05% FSO

Sensing Element: 4-active-arm bridge, using thick-film strain gages in a hermetically sealed chamber

(except gage units)

Operating Temp Range: -46 to 121°C (-50 to 250°F)

Compensated Temp Range: 16 to 71°C (60 to 160°F)

Thermal Effects:

Span: 0.009% FSO/°C **Zero:** 0.009% FSO/°C

Proof Pressure:

150% of rated pressure

Burst Pressure:

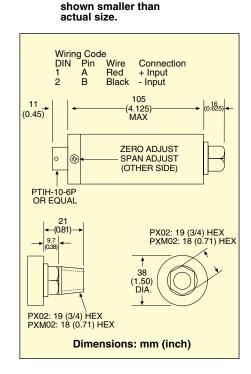
300% of rated pressure

Wetted Parts: 17-4 PH stainless steel Pressure Port: See custom configurations table on next page Electrical Connection: See custom configurations table on next page

Mating Connector: PT06F10-6S

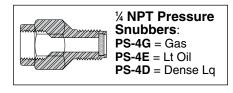
(sold separately) **Weight:** 388 g (13.7 oz)

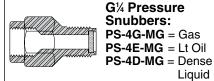




Twist-lock style.

Cable style.





HIGH-ACCURACY ALL STAINLESS STEEL TRANSDUCER

STANDARD CUSTOM CONFIGURATIONS

PX02 PRESSURE ELECTRICAL SERIES PORT CONNECTION [1] [2]	RANGE (psi) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
Models < 10,000 psi C = ½-18 NPT-M D = ½-18 NPT-F J = ½-20 UNF-M K = ½-20 UNF-F Models ≥10,000 psi S = ½ HP tube fitting 0 = 3 m (10') cable (std) + add cost/ft over 3 m (10') 1 = PTIH-10-6P connector (or equal) Mating connector (sold separately), order PT06F10-6S 5 = Lightning-protected amplifier box (4 to 20 mA models only) 6 = mini DIN connector (no shunt cal)	002* 005* 010 015 020 025 050 075 100 150 200 250 300 750 1K 1.5K 2K 3.5K 5K 7.5K 10K†	A,A,G,G,G,G,G,G,G,G,G,G,G,G,G,G,G,G,G,G	* 2 and 5 psi ranges availa † Supplied with ¼ HP tube To order a 1. Select a p 2. Select ele 3. Select a p	OL = Overload stops + additional cost when available OX = Cleaned for oxygen service + additional cost plus 2 weeks ()ft = Optional cable length in feet able only on amplified output. e fitting. custom configuration: oressure port ectrical connection oressure range
For additional options, including extended temperature ranges, see omega.com	20K [†] 30K [†]	A,G,S A,G,S	4. Select pre5. Select ou6. Select opt	tput

Ordering Example: PX02C1-100GI, 100 psi gage pressure transducer with ½-18 NPT male fitting, PTIH-10-6P, connector, and 4 to 20 mA output, PT06F10-6S, mating connector (sold separately).

METRIC CUSTOM CONFIGURATIONS

MA = G%B Male MB = G%B Female MC = G%B Male MD = G%B Female 0 = 3 m (10') cable (std) + add cost/m over 3 m (10') 1 = PTIH-10-6P connector	0.16 0.4 1.0 2.5 4.0 6.0 10 16 25 40	A, G, S S, S, S	4 to 20 mA	OX = Cleaned for oxygen service OL = Overload stops ()m = Optional cable length in meters
(or equal) 6 = mini DIN connector (no shunt cal) For additional options, including extended compensated temperatures, see omega.com	40 60 100 160 250 400	A, G, S A, G, S A, G, G, S A, G, G, S A, G, G A, G, G	 Select a press Select electric Select a press 	cal connection sure range re units – absolute, gage e

Ordering Examples: PXM02MB0-010BARSI, 10 bar sealed gage pressure transducer with G^{1}/B female connection and 3 m (10') cable termination.

PXM02MD1-010BARAI, 10 bar absolute pressure transducer with G¼B female connection and twist-lock connector. **PT06F10-6S**, mating connector (sold separately).

STANDARD AND METRIC MODELS

STANDARD MODELS

To Order				
RANGE		%-20 UNF MODEL NO.	¼ NPT MODEL NO.	COMPATIBLE METERS [†]
ABSOLUTE PRE	SSURE (All Ranges Availa	ble in Absolute Pressure)		
0 to 10 psi	0 to 0.69 bar	PX02K[*]-010AI	PX02C[*]-010AI	DP41-E, DP25B-E
0 to 15 psi	0 to 1.0 bar	PX02K[*]-015AI	PX02C[*]-015AI	DP41-E, DP25B-E
0 to 20 psi	0 to 1.4 bar	PX02K[*]-020AI	PX02C[*]-020AI	DP41-E, DP25B-E
0 to 25 psi	0 to 1.7 bar	PX02K[*]-025AI	PX02C[*]-025AI	DP41-E, DP25B-E
0 to 50 psi	0 to 3.4 bar	PX02K[*]-050AI	PX02C[*]-050AI	DP41-E, DP25B-E
GAGE PRESSUR	RE (All Ranges Also Availal	ble in Sealed Gage Pressure)		
0 to 2 psi	0 to 0.14 bar	PX02K[*]-002GI	PX02C[*]-002GI	DP41-E, DP25B-E
0 to 5 psi	0 to 0.34 bar	PX02K[*]-005GI	PX02C[*]-005GI	DP41-E, DP25B-E
0 to 10 psi	0 to 0.69 bar	PX02K[*]-010GI	PX02C[*]-010GI	DP41-E, DP25B-E
0 to 15 psi	0 to 1.0 bar	PX02K[*]-015GI	PX02C[*]-015GI	DP41-E, DP25B-E
0 to 50 psi	0 to 3.4 bar	PX02K[*]-050GI	PX02C[*]-050GI	DP41-E, DP25B-E
0 to 75 psi	0 to 5.2 bar	PX02K[*]-075GI	PX02C[*]-075GI	DP41-E, DP25B-E
0 to 100 psi	0 to 6.9 bar	PX02K[*]-100GI	PX02C[*]-100GI	DP41-E, DP25B-E
0 to 200 psi	0 to 13.8 bar	PX02K[*]-200GI	PX02C[*]-200GI	DP41-E, DP25B-E
0 to 300 psi	0 to 20.7 bar	PX02K[*]-300GI	PX02C[*]-300GI	DP41-E, DP25B-E
0 to 500 psi	0 to 34.5 bar	PX02K[*]-500GI	PX02C[*]-500GI	DP41-E, DP25B-E
0 to 1000 psi	0 to 68.9 bar	PX02K[*]-1KGI	PX02C[*]-1KGI	DP41-E, DP25B-E
0 to 1500 psi	0 to 103 bar	PX02K[*]-1.5KGI	PX02C[*]-1.5KGI	DP41-E, DP25B-E
0 to 2000 psi	0 to 138 bar	PX02K[*]-2KGI	PX02C[*]-2KGI	DP41-E, DP25B-E
0 to 3500 psi	0 to 241 bar	PX02K[*]-3.5KGI	PX02C[*]-3.5KGI	DP41-E, DP25B-E
0 to 5000 psi	0 to 345 bar	PX02K[*]-5KGI	PX02C[*]-5KGI	DP41-E, DP25B-E
0 to 7500 psi	0 to 517 bar	PX02K[*]-7.5KGI	PX02C[*]-7.5KGI	DP41-E, DP25B-E
0 to 10,000 psi**	0 to 689 bar	PX02S[*]-10KGI	PX02S[*]-10KGI	DP41-E, DP25B-E*
0 to 20,000 psi**	0 to 1379 bar	PX02S[*]-20KGI	PX02S[*]-20KGI	DP41-E, DP25B-E*
0 to 30,000 psi**	0 to 2068 bar	PX02S[*]-30KGI	PX02S[*]-30KGI	DP41-E, DP25B-E*

[*] = Insert "0" for 3 m (10') cable, "1" for twist-lock connector, or "6" for mini DIN connector.

Ordering Examples: PX02K1-1KGI, 1000 psi gage transducer with 4 to 20 mA output, twist lock connector and ⁷/₁₆-20 female pressure connection. PT06F10-6S, mating connector (sold separately), PX02C0-010GI, 10 psi gage transducer with 4 to 20 mA output, 3 m (10') cable and ¹/₄ NPT male pressure connection.

ACCESSORY

MODEL NO.	DESCRIPTION
PT06F10-6S	Mating connector for PX02/PXM02 transducers with PTIH-10-6P electrical connection

[*] = Insert "0" for 3 m (10') cable, "1" for twist-lock connector, or "6" for mini DIN connector.

To order absolute pressure models, replace "G" in model number with "A" and add cost To order sealed gage models, replace "G" in model number with "S" (no extra charge).

Ordering Examples: PXM02MD6-4BARGI,
4 bar gage transmitter with 4 to 20 mA
output, mini-DIN connector and G ¼ female
pressure connection. Mating connector
included. PXM02MC0-010BARAI, 10 bar
absolute transmitter with 4 to 20 mA output,
3 m (10') cable with ½ NPT conduit fitting
and and G ¼ male pressure connection.

METRIC MODELS

Models with G ¼ Female Pressure Connection, Cable or Connector and 4 to 20 mA Output				
RANGE		MODEL NO.	COMPATIBLE METERS†	
GAGE PRES	SURE			
0 to 0.16 bar	0 to 2.32 psi	PXM02MD[*]-160mBARGI	DP41-E, DP25B-E	
0 to 0.4 bar	0 to 5.8 psi	PXM02MD[*]-400mBARGI	DP41-E, DP25B-E	
0 to 1 bar	0 to 15 psi	PXM02MD[*]-001BARGI	DP41-E, DP25B-E	
0 to 1.60 bar	0 to 23 psi	PXM02MD[*]-1.60BARGI	DP41-E, DP25B-E	
0 to 2.50 bar	0 to 36 psi	PXM02MD[*]-2.50BARGI	DP41-E, DP25B-E	
0 to 4 bar	0 to 58 psi	PXM02MD[*]-004BARGI	DP41-E, DP25B-E	
0 to 6 bar	0 to 87 psi	PXM02MD[*]-006BARGI	DP41-E, DP25B-E	
0 to 10 bar	0 to 145 psi	PXM02MD[*]-010BARGI	DP41-E, DP25B-E	
0 to 16 bar	0 to 232 psi	PXM02MD[*]-016BARGI	DP41-E, DP25B-E	
0 to 25 bar	0 to 363 psi	PXM02MD[*]-025BARGI	DP41-E, DP25B-E	
0 to 40 bar	0 to 580 psi	PXM02MD[*]-040BARGI	DP41-E, DP25B-E	
0 to 60 bar	0 to 870 psi	PXM02MD[*]-060BARGI	DP41-E, DP25B-E	
0 to 100 bar	0 to 1450 psi	PXM02MD[*]-100BARGI	DP41-E, DP25B-E	
0 to 160 bar	0 to 2321 psi	PXM02MD[*]-160BARGI	DP41-E, DP25B-E	
0 to 250 bar	0 to 3626 psi	PXM02MD[*]-250BARGI	DP41-E, DP25B-E	
0 to 400 bar	0 to 5802 psi	PXM02MD[*]-400BARGI	DP41-E, DP25B-E	

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PRESSURE TRANSDUCERS

mV/V Output 0-15 to 0-10,000 psi 0-1 to 0-700 bar

1 bar = 14.5 psi $1 \text{ kg/cm}^2 = 14.22 \text{ psi}$ 1 atmosphere = 14.7 psi = 29.93 $inHg = 760.2 \ mmHg = 1.014 \ bar$



PX1004/PX1009 Series



- ✓ Two Versions That Operate from -54 to 232°C (-65 to 450°F) (PX1004) or -54 to 343°C (-65 to 650°F) (PX1009)
- High Performance
- Proven High Reliability
- Exceptional Calibration Stability

Applications

- ✓ Engine and Test Stands
- High-Temperature **Testing**
- Process Monitoring
- ✓ Ground Support **Equipment**
- ✓ High-Temperature **Geothermal Generators**

OMEGA's PX1004 and PX1009 sputtered thin-film pressure transducers are designed for high-temperature service. These instruments can operate in temperatures from -54 to 232°C or 343°C (-65 to 450°F or 650°F).

Yet even in these extreme temperatures, they provide outstanding accuracy, long-term calibration stability, and reliability. Static accuracy is ±0.25%, and thermal zero and sensitivity shifts over their compensated ranges are less than ±0.01%/°F.

OMEGA's thin-film technology makes this premium performance possible. The strain gages are sputter-deposited, forming a molecular bond with the substrate. There is virtually no shift, drift, or creep to cause the transducer's calibration to change. The all-welded stainless steel pressure cavity and double-isolated case ensure pressure integrity and reliability in adverse environments.

These high-temperature transducers are available in many standard ranges from 15 psi to 10,000 psi. A NIST-traceable calibration record is available for these units.

SPECIFICATIONS

Excitation: 10 Vdc

Full Range Output:

30 mV nominal, 26 mV minimum

Residual Unbalance:

0 mV ±5% FSO at zero pressure

Input Resistance: 400 Ω nominal Output Resistance: 400 Ω nominal Insulation Resistance:

PX1004: $100M\Omega$ or greater at 50Vdc**PX1009:** $50M\Omega$ or greater at 50Vdc

shown actual size.

Electrical Connections: PX1004: PCIH-10-6P or

equivalent

PX1009: Color-coded pigtail leads, 0.8 m (30") long, minimum

Sensing Element:

4-active-arm bridge using sputterdeposited thin-film elements.

Accuracy: Combined linearity, hysteresis and repeatability: ±0.25% FSO, BSL (over the compensated temperature range)

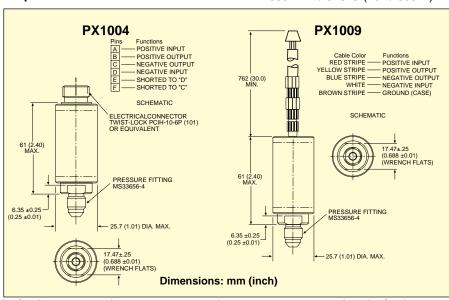
Note: Performance is determined at 25°C ±1°C (77°F ±2°F), open circuit, rated excitation, unless otherwise specified

Operating Temp Range:

PX1004: -54 to 232°C (-65 to 450°F) **PX1009:** -54 to 343°C (-65 to 650°F)

Compensated Temp Range:

PX1004: 24 to 204°C (75 to 400°F) **PX1009:** 24 to 316°C (75 to 600°F)



HIGH AND VERY HIGH TEMPERATURE PRESSURE TRANSDUCERS

Thermal Effects: Span: ±0.01% FSO/°F Zero: ±0.01% FSO/°F

Natural Frequency:

50 kHz at 5000 psi decreasing logarithmically to 5 kHz at 15 psi Vibration Sensitivity: At 35 g peak from 10 Hz to 2000 Hz (limited to 1/2" D.A.), the output shall not exceed:

PX1004 PX1009 0.04% FSO/g 0.02% FSO/g 0.15% FSO/g 0.07% FSO/g 50 psi 100 psi 0.015% FSO/g 0.05% FSO/g 500 psi 0.006% FSO/g 0.02% FSO/g 1000 psi 0.003% FSO/g 0.02% FSO/g

Shock: 100 g, 11 ms half sine wave without calibration shift or damage

Humidity:

Per MIL-STD-810, Method 507.1 Standard ranges: 0 to 15, 25, 50, 100, 250, 500, 1000, 1500, 2000, 2500, 5000 and 10,000 psia. Sealed gage available in ranges of 100 psi and above.

Proof Pressure:

PX1004: 200% of rated pressure PX1009: 150% of rated pressure

Burst Pressure:

PX1004: 300% of rated pressure PX1009: 200% of rated pressure Wetted Parts: 17-4 PH vacuum melt or

15-5 stainless steel

Pressure Fitting:

1/16-20 male per MS33656-4

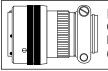
Mounting Isolation: Case isolation ensures that the sensing element will not be affected by external stresses

Mating Connector (PX1004):

PCS06E10-6S (non-RoHS)(sold

separately)

Weight: 145 g (5 oz) maximum



PX1004 Mating Connector PCS06E10-6S (non-RoHS)

To Order				
RAN	GE	MODEL NO. PX1004	MODEL NO. PX1009	COMPATIBLE METERS*
ABSOLUTE PRE	SSURE (All Range:	s Available in Sealed Gage I	Pressure)	
0 to 15 psi	0 to 1.0 bar	PX1004L1-015AV	PX1009L0-015AV	DP41-S, DP25B-S
0 to 25 psi	0 to 1.7 bar	PX1004L1-025AV	PX1009L0-025AV	DP41-S, DP25B-S
0 to 50 psi	0 to 3.4 bar	PX1004L1-050AV	PX1009L0-050AV	DP41-S, DP25B-S
0 to 100 psi	0 to 6.9 bar	PX1004L1-100AV	PX1009L0-100AV	DP41-S, DP25B-S
0 to 250 psi	0 to 17.2 bar	PX1004L1-250AV	PX1009L0-250AV	DP41-S, DP25B-S
0 to 500 psi	0 to 34.5 bar	PX1004L1-500AV	PX1009L0-500AV	DP41-S, DP25B-S
0 to 1000 psi	0 to 68.9 bar	PX1004L1-1KAV	PX1009L0-1KAV	DP41-S, DP25B-S
0 to 1500 psi	0 to 103 bar	PX1004L1-1.5KAV	PX1009L0-1.5KAV	DP41-S, DP25B-S
0 to 2000 psi	0 to 138 bar	PX1004L1-2KAV	PX1009L0-2KAV	DP41-S, DP25B-S
0 to 2500 psi	0 to 172 bar	PX1004L1-2.5KAV	PX1009L0-2.5KAV	DP41-S, DP25B-S
0 to 5000 psi	0 to 345 bar	PX1004L1-5KAV	PX1009L0-5KAV	DP41-S, DP25B-S
0 to 10,000 psi	0 to 689 bar	PX1004L1-10KAV	PX1009L0-10KAV	DP41-S, DP25B-S

Comes complete with 5-point calibration.

Metric ranges available - Consult Engineering.

To order sealed gage pressure, replace "A" in model number with "S" (no extra charge).

Ordering Examples: PX1004L1-100AV, 100 psi absolute pressure transducer with male pressure connection per MS33656-4 and PCHI0-10-6P electrical connector. PCS06E10-6S, mating connector (sold separately). PX1009L0-1KSV, 1000 psi sealed gage pressure transducer with MS33656-4 male

pressure connection and 0.8 m (30") high-temperature cable.

CUSTOM CONFIGURATIONS

ACCESSORY	
MODEL NO.	DESCRIPTION
PCS06E10-6S	Mating connector for PX1004 transducers (non-RoHS)

PRESSURE PX1004/1009 PORT	ELECTRICAL CONNECTION	RANGE	UNITS	OUTPUT	OPTIONS
SERIES [1]	[2]	[3]	[4]	[5]	[6]
L = MS33656-4	1 - PCIH0-10-6P	015 psi 025 050 100	A A A, S A, S	V = mV/V Output Base Price PX1004: Base Price PX1009:	CAL11 = 11-point NIST- traceable calibration extra cost
PX1004 only 1 = PCIH0-10-6P Connector (or equal). Mating connector (sold separately), order PCS06E10-6S		2.5K A, S	To order a custom configuration:1. Select a pressure port2. Select electrical connection3. Select a pressure range		
PX1009 only Metric ranges available – Co	0 = color-coded cable, 0.8 m (30") min	5K 10K	A, S A, S	4. Select pressure u5. Select output6. Select options and	nits
Onderion Francisco BY4004	<u> </u>			•	• • • • • • • • • • • • • • • • • • • •

Ordering Examples: PX1004L1-100AV, MS33656-4 male pressure port, twist-lock connector, 100 psi absolute pressure range and mV/V output. PCS06E10-6S, mating connector (sold separately). PX1004L1-015SV, MS33656-4 male pressure port, twist-lock connector, 15 psi sealed gage pressure range and mV/V output. **PCS06E10-6S**, mating connector (sold separately). **PX1009L1-1KSV-CAL11**, MS33656-4 male pressure port, 0.8 m (30") high-temperature cable, 1000 psi sealed gage pressure range,

mV/V output and optional 11-point NIST-traceable calibration.

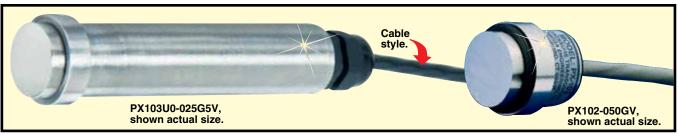
^{*} See omega.com for compatible meters.

O-RING INCLUDED WITH EACH ADAPTOR

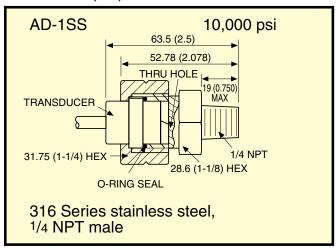


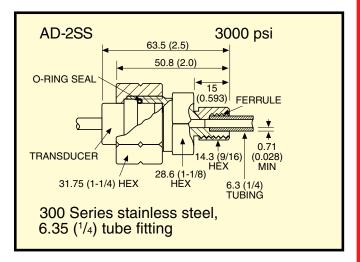


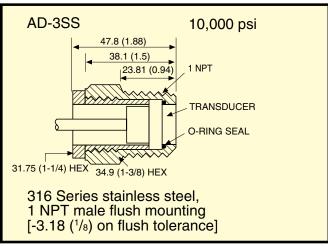
AD-1SS with 1/4 NPT fitting, shown actual size.



Dimensions: mm (inch)







O-RINGS Use for pressures under 10,000 psi: #2-018-V FKM #2-013-V Use for pressures of 10,000 psi and higher: POLYURETHANEPk of 10 #2-013-P POLYURETHANE

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TRANSDUCER WITH AMPLIFIED **VOLTAGE OUTPUT** STAINLESS STEEL WETTED PARTS

To Order

0.5 to 5.5 Vdc Output 0-15 to 0-20.000 psi 0-1 to 0-1300 bar

 $1 \, bar = 14.5 \, psi$ 1 kg/cm² = 14.22 psi 1 atmosphere = 14.7 psi = 29.93 $inHg = 760.2 \ mmHg = 1.014 \ bar$



PX103-5V Series



- All Stainless Steel
- Amplified Voltage Output
- ✓ Flush Diaphragm for Hard-to-Measure Fluids
- Ideal for Tank and Level **Applications**

Omega's PX103U voltage transmitters feature a rugged all stainless steel case and a highreliability, low-noise 0.5 to 5.5 Vdc output. They are designed for use in critical applications in wastewater management, chemical manufacturing, water processing, tank and level applications, and other industrial applications where a non-plugging flush diaphragm is needed.

ACCESSORY

	DESCRIPTION
PT06F10-6S-R	Mating connector for PX103U1 series transducers

RANGE		MODEL NO.		
ABSOLUTE PRI	ESSURE (All Ra	anges Available in Ab	solute Pressure)	
0 to 15 psi	0 to 1 bar	PX103U[*]-015A5V	DP41-E, DP25B-E, DP24-E	
0 to 25 psi	0 to 1.7 bar	PX103U[*]-025A5V	DP41-E, DP25B-E, DP24-E	
0 to 50 psi	0 to 3.4 bar	PX103U[*]-050A5V	DP41-E, DP25B-E, DP24-E	
GAGE PRESSU	RE (All Ranges	Also Available in Sea	aled Gage Pressure)	
0 to 15 psi	0 to 1 bar	PX103U[*]-015G5V	DP41-E, DP25B-E, DP24-E	
0 to 25 psi	0 to 1.7 bar	PX103U[*]-025G5V	DP41-E, DP25B-E, DP24-E	
0 to 50 psi	0 to 3.4 bar	PX103U[*]-050G5V	DP41-E, DP25B-E, DP24-E	
0 to 100 psi	0 to 6.9 bar	PX103U[*]-100G5V	DP41-E, DP25B-E, DP24-E	
0 to 200 psi	0 to 13.8 bar	PX103U[*]-200G5V	DP41-E, DP25B-E, DP24-E	
0 to 500 psi	0 to 34.5 bar	PX103U[*]-500G5V	DP41-E, DP25B-E, DP24-E	
0 to 1000 psi	0 to 68.9 bar	PX103U[*]-1KG5V	DP41-E, DP25B-E, DP24-E	
0 to 2000 psi	0 to 138 bar	PX103U[*]-2KG5V	DP41-E, DP25B-E, DP24-E	
0 to 3000 psi	0 to 207 bar	PX103U[*]-3KG5V	DP41-E, DP25B-E, DP24-E	
0 to 5000 psi	0 to 345 bar	PX103U[*]-5KG5V	DP41-E, DP25B-E, DP24-E	
0 to 10,000 psi	0 to 689 bar	PX103U[*]-10KG5V	DP41-E, DP25B-E, DP24-E	
0 . 4 = 000 .				

0 to 1379 bar Comes complete with 5-point NIST traceable calibration.

Metric ranges available - consult Engineering.

0 to 15,000 psi | 0 to 1034 bar |

0 to 20,000 psi

* 4-digit meter, counts by 10. ** Visit us online for compatible meters.

[*] To order cable style insert "0" into model number; to order connector style insert "1".

To order absolute pressure ranges, replace "G" in model number with "A" and add additional cost. To order sealed gage pressure ranges, replace "G" in model number with "S" (no extra charge). To order extra lead length [3 m (10') standard) add suffix "-(Length of cable in feet)" and additional cost for each foot beyond 10'.

PX103U[*]-20KG5V

PX103U[*]-15KG5V | DP41-E, DP25B-E*, DP24-E

DP41-E. DP25B-E*. DP24-E

Ordering Examples: PX103U0-050G5V, 50 psi gage pressure cable style transducer with 0.5 to 5.5 Vdc output. PX103U1-050A5V, 50 psi absolute pressure connector style transducer with 0.5 to 5.5 Vdc output. PT06F10-6S-R, mating connector (sold separately). PX103U0-200S5V-25FT, 200 psi sealed gage pressure cable style transducer with 0.5 to 5.5 Vdc output and 7.6 m (25) leads

0.5 to 5.5 Vdc output and 7.6 m (25') leads.

FLUSH DIAPHRAGM TRANSMITTER

SPECIFICATIONS

5.5 Vdc OUTPUT

Excitation: 10 to 30 Vdc
Output: 0.5 to 5.5 Vdc
(0.5 to 10.5 Vdc optional)
Zero Balance: 0.5V ±0.1V

Accuracy:

<100 psi: ±1% FSO linearity, hysteresis and repeatability

combined

≥100 psi: ±0.5% FSO linearity, hysteresis and repeatability

combined

Operating Temp Range:

<100 psi: -45 to 93°C (-50 to 200°F) ≥100 psi: -45 to 121°C (-50 to 250°F)

Compensated Temp Range:

<100 psi: -1 to 54°C (30 to 130°F) ≥100 psi: -18 to 66°C (0 to 150°F)

THERMAL EFFECTS

<100 psi:

Span: <±2% within compensated range Zero: <±1% within compensated range

≥100 psi:

Span: ±0.003% rdg/°F **Zero:** ±0.0045% FSO/°F

Ranges (psi): 5,15, 25, 50, 100, 200, 500, 1K, 5K, 10K, 20K; gage, sealed gage or absolute; metric ranges also available

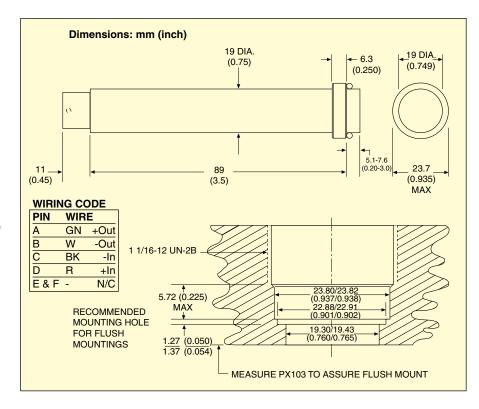
Proof Pressure:

<100 psi: 200% of rated pressure ≥100 psi: 150% rated pressure 30,000 psi: maximum

Burst Pressure:

<100 psi: 500% of rated pressure ≥100 psi: 300% of rated pressure

50,000 psi: maximum



Wetted Parts:

Ranges <100 psi: 316 stainless steel Ranges ≥100 psi: 17-4 PH stainless

steel

Pressure Port: Flush diaphragm O-Ring: #2-018, sold separately Electrical Connection: 3 m (10') 4-conductor shielded PVC cable or

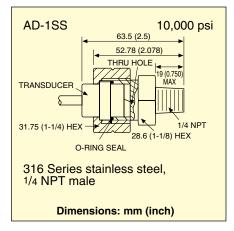
PTIH-10-6P or equal

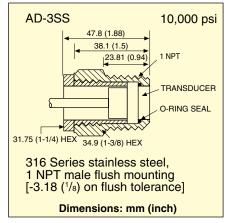
Mating Connector:

PT06F10-6S-R (sold separately)



Flush Mount Adaptors for Series PX103 Transducers





"O" RINGS FKM or Polyurethane

Use for pressures under 10,000 psi: #2-018-V FKM.....Pack of 10

Use for pressures of 10,000 psi and higher: #2-018-P

POLYURETHANE Pack of 15

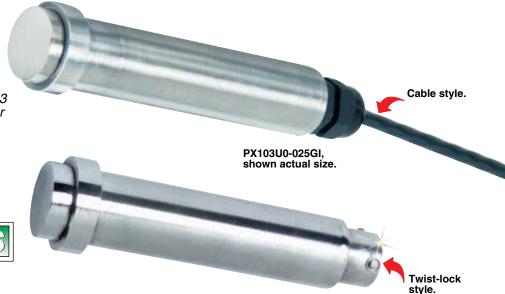
O-Ring Provided with Each Adaptor

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TRANSMITTER STAINLESS STEEL WETTED PARTS **MOUNTING FITTINGS AVAILABLE**

4 to 20 mA Output 0-15 to 0-20,000 psi 0-1 to 0-1300 bar

1 bar = 14.5 psi $1 \text{ kg/cm}^2 = 14.22 \text{ psi}$ 1 atmosphere = 14.7 psi = 29.93 $inHg = 760.2 \ mmHg = 1.014 \ bar$



PX103U1-025GI. shown actual size.





- All Stainless Steel
- ✓ Low-Noise 4 to 20 mA Output
- Flush Diaphragm for Hard-to-Measure Fluids
- ✓ Ideal for Tank and Level **Applications**

Omega's PX103 Series transmitters feature a rugged all stainless steel case and a high-reliability, low-noise 4 to 20 mA output. They are designed for use in critical applications in wastewater management, chemical manufacturing, water processing, tank and level operations, and other industrial applications in which a non-plugging flush diaphragm is needed.



Excitation: 10 to 30 Vdc Output: 4 to 20 mA

Zero Balance: 4 mA ±0.2 mA

Accuracy:

and repeatability combined

<100 psi: ±1% linearity, hysteresis and repeatability combined ≥100 psi: ±0.5% linearity, hysteresis

Connections Red or A = + Input Black or B = - Input 19 DIA (0.749) DIA. -6.3 (0.75)(0.250)51-76 23.75 (0.93) (0.20-89 (0.45)(3.5)0.30)1 1/16-12 UN-2B RECOMMENDED MOUNTING HOLE 23.80/23.82 (0.937/0.938) -22.88/22.91 (0.901/0.902) 5.72 (0.225) FOR FLUSH MOUNTINGS 19 30/19 43 1.27 (0.050) 1.37 (0.054) (0.760/0.765)MEASURE PX103 TO ASSURE FLUSH MOUNT Dimensions: mm (inch)

Operating Temp Range:

<100 psi: -40 to 82°C (-40 to 180°F) ≥100 psi: -46 to 121°C (-50 to 250°F)

Compensated Temp Range:

<100 psi:-1 to 54°C (30 to 130°F) ≥100 psi: -18 to 66°C (0 to 150°F)

FLUSH DIAPHRAGM TRANSMITTER

Thermal Effects:

<100 psi:

Span: <±2% within compensated range Zero: <±1% within compensated range

≥100 psi:

Span: 0.003% rdg/°F **Zero:** 0.0045% FS/°F

Proof Pressure:

<100 psi: 200% of rated pressure ≥100 psi: 150% rated pressure, 30,000 psi maximum

Burst Pressure:

<100 psi: 500% of rated pressure ≥100 psi: 300% of rated pressure,

50,000 psi maximum

Wetted Parts:

Ranges <100 psi: 316 SS Ranges ≥100 psi: 17-4 PH SS O-Ring: Not included #2-018 Electrical Connection:

PTIH-10-6P or equal or 3 m (10') 2-conductor shielded PVC cable

Mating Connector:

PT06F10-6S-R (sold separately)



ACCESSORY

MODEL NO.	DESCRIPTION
PT06F10-6S-R	Mating connector for PX103U1 Series

To Order				
RANGE		MODEL NO.	COMPATIBLE METERS**	
ABSOLUTE PRE	ESSURE (All Ra	anges Available in Ab	solute Pressure)	
0 to 15 psi	0 to 1 bar	PX103U[*]-015AI	DP41-E, DP25B-E, DP24-E	
0 to 25 psi	0 to 1.7 bar	PX103U[*]-025AI	DP41-E, DP25B-E, DP24-E	
0 to 50 psi	0 to 3.4 bar	PX103U[*]-050AI	DP41-E, DP25B-E, DP24-E	
GAGE PRESSU	RE <i>(All Ranges</i>	Also Available in Sea	aled Gage Pressure)	
0 to 15 psi	0 to 1 bar	PX103U[*]-015GI	DP41-E, DP25B-E, DP24-E	
0 to 25 psi	0 to 1.7 bar	PX103U[*]-025GI	DP41-E, DP25B-E, DP24-E	
0 to 50 psi	0 to 3.4 bar	PX103U[*]-050GI	DP41-E, DP25B-E, DP24-E	
0 to 100 psi	0 to 6.9 bar	PX103U[*]-100GI	DP41-E, DP25B-E, DP24-E	
0 to 200 psi	0 to 13.8 bar	PX103U[*]-200GI	DP41-E, DP25B-E, DP24-E	
0 to 500 psi	0 to 34.5 bar	PX103U[*]-500GI	DP41-E, DP25B-E, DP24-E	
0 to 1000 psi	0 to 68.9 bar	PX103U[*]-1KGI	DP41-E, DP25B-E, DP24-E	
0 to 2000 psi	0 to 138 bar	PX103U[*]-2KGI	DP41-E, DP25B-E, DP24-E	
0 to 3000 psi	0 to 207 bar	PX103U[*]-3KGI	DP41-E, DP25B-E, DP24-E	
0 to 5000 psi	0 to 345 bar	PX103U[*]-5KGI	DP41-E, DP25B-E, DP24-E	
0 to 10,000 psi	0 to 689 bar	PX103U[*]-10KGI	DP41-E, DP25B-E, DP24-E	
0 to 15,000 psi	0 to 1034 bar	PX103U[*]-15KGI	DP41-E, DP25B-E*, DP24-E	
0 to 20,000 psi	0 to 1379 bar	PX103U[*]-20KGI	DP41-E, DP25B-E*, DP24-E	

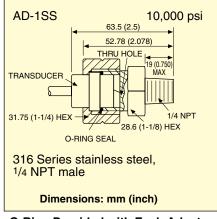
Comes complete with 5-point NIST traceable calibration. Metric ranges available – consult Engineering.

[*] To order cable style insert "0" into model number; to order connector style insert "1".

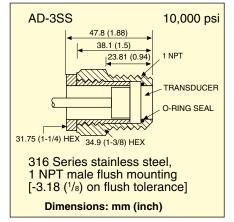
To order absolute pressure ranges, replace "G" in model number with "A" and add additional cost. To order sealed gage pressure models, replace "G" in model number with "S" (no extra charge). To order extra lead length [3 m (10') standard], add suffix "-(Length of cable in feet)" and additional cost for each foot beyond 10'.

Ordering Example: PX103U1-100GI, 100 psi gage pressure, connector style transducer PT06F10-6S-R, mating connector (sold separately).

Flush Mount Adaptors for PX103 Series Transducers



O-Ring Provided with Each Adaptor



"O" RINGS FKM or Polyurethane

Use for pressures under 10,000 psi: #2-018-V FKM.....Pack of 10 Use for pressures of 10,000 psi and higher:

#2-018-P
POLYURETHANE Pack of 15

^{* 4-}digit meter, counts in increments of 10.

^{**} Visit us online for compatible meters.

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Pressure Transmitters

15 to 5000 psi, 1 to 345 bar

PX119 Series



- ✓ Low Cost
- Compact Size
- ✓ 0.50% BFSL Accuracy
- ✓ All Stainless Steel Body

The PX119 pressure transmitter series is ideally suited for material handling, industrial and mobile equipment applications where space constraints require a small body size. The body is machined from a single piece of stainless steel to provide added protection for the internal electronics. A piezoresistive ceramic sensor along with ASIC signal conditioning provide an excellent thermally compensated output.

Specifications

Accuracy: 0.50% BFSL Accuracy

Pressure Range: 15 to 5000 psi (345 bar)

Output: 4 to 20 mA, 0 to 5 Vdc Supply Voltage: 8 to 30 Vdc

Output Connections: Cable, M12, DIN

43650C (mini DIN)

Output Wiring: Pin 1: Supply +,

Pin 2: Supply

Long Term Drift: <0.3% FS

@ 25°C (77°F)
Thermal Error:

7.5 psi ≥ **100** psi: 0.01% FS/°F

(0.018% FS/°C)

100 psi > 400 psi: 0.009% FS/°F

(0.016% FS/°C)

400 psi ≥ **1000** psi: 0.011% FS/°F

(0.019% FS/°C)

1000 psi > **3000** psi: 0.012% FS/°F

(0.021% FS/°C)

3000 psi ≥ 5000 psi: 0.018% FS/°F

(0.028% FS/°C)

Compensated Temperature:

0 to 85°C (32 to 185°F)

Operating Temperatures:

-40 to 135°C (-40 to 257°F)

Process Connection: 1/4 NPT Male,

1/8 NPT Male

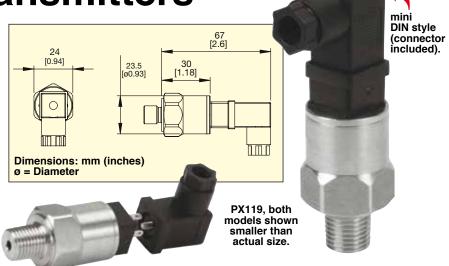
Construction: 304 SS

Wetted Materials: 304 SS and Ceramic Al2O3, NBR Standard Vibration: 10 g (20 to 2000 Hz) for <58 psi (4 bar); 20 g (20 to 500 Hz) for

ranges >58 psi (4 bar)

Protection: Overvoltage, short

circuit, reverse polarity



Part Number Value	Description		Example:	PX1 19	A	- 100	G	5V
Electrical Connection							1.6 30	
09	Cable				1			
19	Mini DIN 4365	0 C		19				
59	M12				1			
Process Connection					•			
(default)	1/4-18 NPT M	ale						
А	1/8-27 NPT M	ale						
Pressure Range	PSI	Bar						
015	0 to 15	0 to 1						
030	0 to 30	0 to 2.1						
060	0 to 60	0 to 4.2						
100	0 to 100	0 to 6.9				100		
150	0 to 150	0 to 10.3						
200	0 to 200	0 to 13.8						
300	0 to 300	0 to 21						
500	0 to 500	0 to 345						
600	0 to 600	0 to 42						
1K	0 to 1000	0 to 69						
1.5K	0 to 1500	0 to 103						
2K	0 to 2000	0 to 138						
3K	0 to 3000	0 to 207						
5K	0 to 5000	0 to 345						
Pressure Type							(C)	
А	Absolute							
G	Gauge						G	
Electrical Output								
1	4 to 20 mA							
5V	0 to 5 Vdc	0 to 5 Vdc					51	

Accessories

Model No.	Description
CA-319-4PC24-XXX-WP	Vented cable used for PX119 ≤100 psig, terminated in a clean dry area that is open to atmosphere for correct operation*
CA-319-4PC24-XXX Standard cable for PX119 >100 psig and all absolute ranges, terminated in a dry location or sealed to prevent water from getting into the cable/senso	
DP8PT	PLATINUM™ Series ½ DIN 4-digit single display panel meter

*All PX119 are vented through a hole in the connector and through the mating connector. OMEGA recommends purchase and use of ready-made Cable Assemblies using part # structure "CA-319-4PC24-XXX-WP" (and non-WP version) as shown above, where "XXX" is the length in feet of the desired cable (e.a. "030" stands for 30 ft).

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ABSOLUTE/DIFFERENTIAL/MEASUREMENTS

FOR MEASUREMENT OF CLEAN GASES

±1.0 to 0-30 psi ±0.07 to 0-2 bar





PX142-015D5V, shown actual size.

PX140 Series

✓ Silicon Diaphragm

✓ High-Level Output: 1 to 6 Vdc @ 8 Vdc Excitation

Pressure, Vacuum, Differential, and Absolute Types

Printed Circuit Board Terminals Exit on Opposite Side from the Ports

✓ High-Impact Plastic Case

✓ Accurate

All Models Temperature Compensated **SPECIFICATIONS**

Excitation: 8 Vdc regulated (7 to 16 limits) @ 8 mA

Output: 1 to 6 Vdc (±2.5 Vdc PX143)

Linearity: ±0.75% FS BFSL (±1.5% FS PX143)

Hysteresis: 0.15% FS (0.30% FS ≤5 psi range) Zero Balance: 1.0 Vdc ±0.05 (3.50 Vdc ±0.05 PX143) **Operable Overpressure:** 3x range except (60 psi for 30 psi range,

20 psi for 5 psi)

Response Time: 1 ms

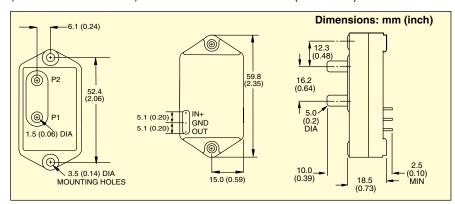
MEDIA COMPATIBILITY

Absolute and P1: Dry gases only P2: Limited only to those media that will not attack polyester, silicon, borosilicate

glass or epoxy adhesive

Compensated Temperature Range:

-18 to 63°C (0 to 145°F)



Visit OMEGA for connector CX136-3

To Order				
RANGE		TYPE	MODEL NO.	COMPATIBLE METERS*
-1 to 0 psiv	-0.07 to 0 bar	Vacuum	PX141-001D5V	DP41-E, DP25B-E, DP24-E
-5 to 0 psiv	-0.03 to 0 bar	Vacuum	PX141-005V5V	DP41-E, DP25B-E, DP24-E
-15 to 0 psiv	-1 to 0 bar	Vacuum	PX141-015V5V	DP41-E, DP25B-E, DP24-E
0 to 15 psia	0 to 1.0 bar	Absolute	PX142-015A5V	DP41-E, DP25B-E, DP24-E
0 to 30 psia	0 to 2.1 bar	Absolute	PX142-030A5V	DP41-E, DP25B-E, DP24-E
0 to 1 psid	0 to 0.069 bar	Differential	PX142-001D5V	DP41-E, DP25B-E, DP24-E
0 to 2 psid	0 to 0.14 bar	Differential	PX142-002D5V	DP41-E, DP25B-E, DP24-E
0 to 5 psid	0 to 0.34 bar	Differential	PX142-005D5V	DP41-E, DP25B-E, DP24-E
0 to 15 psid	1.0 bar	Differential	PX142-015D5V	DP41-E, DP25B-E, DP24-E
0 to 30 psid	0 to 2.1 bar	Differential	PX142-030D5V	DP41-E, DP25B-E, DP24-E
±1 psid	±0.069 bar	Differential	PX143-01BD5V	DP41-E, DP25B-E, DP24-E
±2.5 psid	±0.17 bar	Differential	PX143-2.5BD5V	DP41-E, DP25B-E, DP24-E
±5 psid	±0.34 bar	Differential	PX143-05BD5V	DP41-E, DP25B-E, DP24-E
±15 psid	±1.0 bar	Differential	PX143-15BD5V	DP41-E, DP25B-E, DP24-E

Comes complete with operator's manual.

Ordering Examples: PX142-015D5V, 0 to 15 psi differential pressure. PX141-005V5V, -5 psi to 0 vacuum range.

ACCESSORY

ACCESSOR	ACCESSON				
MODEL NO.	DESCRIPTION				
CX136-3	Mating connector for PX140 series transducers				

^{*} Visit us online for compatible meters.

FOR DIFFERENTIAL/GAGE FOR MEASUREMENT OF CLEAN GASES

±2.5 inH₂O to 0-27.68 inH₂O ±0.02 to 0-6.9 kPa



PX163-005BD5V, shown actual size.



PX160 Series

- Silicon Diaphragm
- ✓ 1 to 6V Output Span
- ✓ Gage, Vacuum, **Differential Pressures**
- ✓ 8 Vdc Excitation
- High-Impact Plastic Case
- Accurate
- ✓ Temperature Compensated

SPECIFICATIONS

Excitation: 8 Vdc regulated (6 to 12 Vdc at 20 mÅ) (PX163-120D5V uses 10 Vdc)

Output: 1 to 6 Vdc

Linearity: ±1.0% FS BFSL at specified voltage; ±1.5% maximum

for PX163-120BD5V

Hysteresis and Repeatability:

±0.25% FS

Zero Balance: 1 Vdc ±0.05 (3.5 ±0.05 Vdc PX163 Series) **Operable Temperature Range:** -40 to 85°C (-40 to 185°F)

Compensated Temperature Range:

-18 to 63°C (0 to 145°F) **PX163 and 164:** 5 to 45°C (41 to 113°F) Operable Overpressure: 5 psi

Media Compatibility: P1: Dry gases only

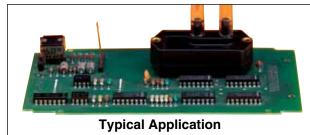
P2: Gage: Limited to media that will not attack polyester, silicon, borosilicate glass or epoxy

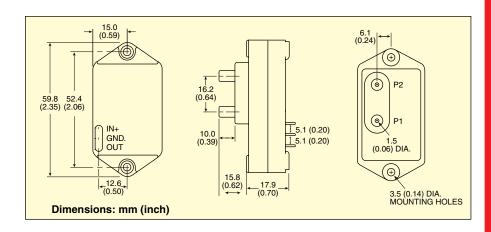
Response Time: 1 ms Mating Connector: CX136-3.

(sold separately)

ACCESSORIES

MODEL NO.	DESCRIPTION
CX136-3	Mating connector
PST-8	8V power supply
PST-10	10V power supply





To Orde	To Order				
RAI	NGE			COMPATIBLE	
inH₂O	kPa	TYPE	MODEL NO.	METERS†	
0 to 27.68	0 to 6.9	Gage	PX162-027G5V	DP41-E, DP25B-E	
0 to 27.68	0 to 6.9	Differential	PX162-027D5V	DP41-E, DP25B-E	
±2.5	0.623	Differential	PX163-2.5BD5V	DP41-E, DP25B-E	
±5.0	1.25	Differential	PX163-005BD5V	DP41-E, DP25B-E	
0 to 5	0 to 1.25	Differential	PX164-005D5V	DP41-E, DP25B-E	
0 to 10	0 to 2.49	Differential	PX164-010D5V	DP41-E, DP25B-E	
RANGE cm	RANGE cmH ₂ O (-7.9 to 47.2 inH ₂ O/-0.3 to 1.7 psi)				
-20 to 120	-2 to 11.8	Differential	PX163-120BD5V	DP41-E, DP25B-E	

Comes complete with operator's manual.

- * Use PST-8 for 8 Vdc excitation, PST-10 for 10 Vdc excitation, see omega.com
- [†] Visit **omega.com/meters** for compatible meters.

Orderina Example: PX164-005BD5V. bi-directional ±5 psi range transducer.

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WITH MILLIVOLT OUTPUT

0 to -14.7 to 0-500 psi 0 to -1.0 to 0-34.5 bar

PX180B Series

- Excellent Total Accuracy and Interchangeability
- ✓ Gage Pressure, Vacuum, and Compound **Ranges Available**
- Rugged, Compact Design
- ✓ RFI/EMI Protection
- ✓ Reverse Polarity **Protection**

OMEGA's PX180B Series transducers, designed for general industrial and commercial requirements, offer excellent performance in a wide range of applications. They are based on proven micro-machined silicon technology, providing high reliability, long-term stability, and low cost. They are extremely accurate, with less than 0.3% reference accuracy.

SPECIFICATIONS

Excitation: 10 Vdc (regulated) Output: 0 to 50 mV for 0 to 1 psi model, 0 to 100 mVdc for all other ranges

Load Resistance: $50,000 \Omega$ minimum Accuracy: 0.3% BFSL maximum (includes linearity, hysteresis and

repeatability)

Operating Temperature: -40 to 80°C (-40 to 176°F)

Compensated Temperature: -25 to 75°C (-13 to 167°F) **Process Temperature:**

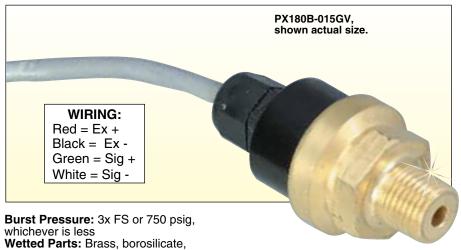
-40 to 100°C (-40 to 212°F) Thermal Zero Effect: 2% FS

maximum over compensated temperature range

Thermal Span Effect: 2% FS maximum over compensated

temperature range

1-Year Stability: <0.25% FS **Proof Pressure: 2x FS** (750 psig for 500 psig range)



silicon, RTV and epoxy

Vibration: 10 g, 55 to 2000 Hz

Shock: 30 q

Process Connection: 1/8 NPT male Electrical Connection: 0.4 m (18")

24-gage shielded cable Weight: 142 g (5 oz)

Dimensions: 1% hex; 72 H x 29.7 mm Dia.

(2.84 x 1.17")

Metric thread adaptors available online

To Order						
GAGE PRI	GAGE PRESSURE RANGES					
psi	bar	MODEL NO.	COMPATIBLE METERS*			
0 to -14.7	0 to -1.0	PX180B-015VACV	DP25B-S, DP41-S, DPiS Series			
0 to 1	0 to 68.9 mbar	PX180B-001GV	DP25B-S, DP41-S, DPiS Series			
0 to 6	0 to 414 mbar	PX180B-006GV	DP25B-S, DP41-S, DPiS Series			
0 to 15	0 to 1.0	PX180B-015GV	DP25B-S, DP41-S, DPiS Series			
0 to 30	0 to 2.1	PX180B-030GV	DP25B-S, DP41-S, DPiS Series			
0 to 60	0 to 4.1	PX180B-060GV	DP25B-S, DP41-S, DPiS Series			
0 to 100	0 to 6.9	PX180B-100GV	DP25B-S, DP41-S, DPiS Series			
0 to 200	0 to 13.8	PX180B-200GV	DP25B-S, DP41-S, DPiS Series			
0 to 300	0 to 20.7	PX180B-300GV	DP25B-S, DP41-S, DPiS Series			
0 to 500	0 to 34.5	PX180B-500GV	DP25B-S, DP41-S, DPiS Series			
COMPOUND PRESSURE RANGES						
-14.7 to 15	-1.0 to 1.0	PX180B-015CV	DP25B-S, DP41-S, DPiS Series			
-14.7 to 30	-1.0 to 2.1	PX180B-030CV	DP25B-S, DP41-S, DPiS Series			
-14.7 to 60	-1.0 to 4.1	PX180B-060CV	DP25B-S, DP41-S, DPiS Series			

ACCESSORIES

MODEL NO.	DESCRIPTION	
PS-8E	Pressure snubber for water or light oils	
PS-8D	Pressure snubber for dense liquids or oils	
PS-8G	Pressure snubber for gases and steam	

Comes complete with operator's manual.

Ordering Example: PX180B-100GV, 0 to 100 psig transducer with 0 to 100 millivolt output.

^{*} Visit us online for compatible meters.

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0-1 to 0-100 psid Uni-Directional ±0.5 to ±50 psid Bi-Directional

PX2300 Series



- ✓ 0.25% Accuracy
- ✓ NEMA 4 (IP65) Rating
- ✓ Wet/Wet Corrosive **Environments**
- Ideal for Measuring **Pressure Drop** Across Filters

OMEGA's PX2300 Series high-output, low differential pressure transducers are compatible with most media, from dry air to corrosive liquids. All wetted parts are stainless steel with elastomer seals. The electronics are housed in a NEMA 4 (IP65) enclosure. A high working pressure and high overpressure ratings ensure dependability in harsh industrial environments. These transducers are ideal for measuring pressure drop across filters and other process devices.

SPECIFICATIONS

Excitation: 24 Vdc nominal Max: 30 + 0.004 x(loop resistance Ω) Vdc Min: 11 + 0.02 x (loop resistance Ω) Vdc **Loop Resistance:** 0 to 1000 Ω

Output: 4 to 20 mA

Accuracy: ±0.25% RSS FS at constant temperature (includes linearity,

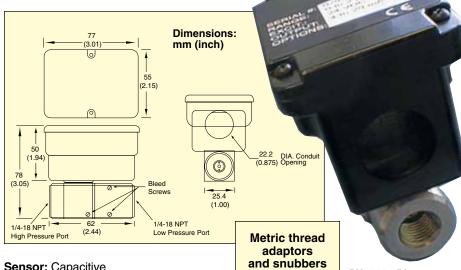
repeatability and hysteresis) Linearity: ±0.20% FS Hysteresis: 0.10% FS Repeatability: ±0.05% FS **Operating Temperature Range:**

-18 to 80°C (0 to 176°F)

Compensated Temperature Range:

-1 to 65°C (30 to 149°F)

Thermal Zero Effect: <±0.02% FS/°F Thermal Span Effect: <±0.02% FS/°F



Sensor: Capacitive

Maximum Line Pressure: 250 psig **Maximum Overpressure:**

High Side: 1 to 5 psi = $20 \times FS$, 10 to 25 psi = $10 \times FS$, $50 \text{ psi} = 5 \times FS$,

100 psi = 2.5 x FS

Low Side: 2.5 x FS (shift recoverable) The zero will shift slightly when high differential pressure is applied. The shift may be as much as ±10% FS with overpressure applied to the low port. (Other parameters will not shift.) The shift may be recovered by a positive overpressure or if the overpressure is always in one direction, the user may apply this pressure to pre-set the sensor. Subsequent overloads of less pressure will not cause any further shift.

Wetted Parts: Air and fluids compatible with 17-4 and 300 stainless steel, FKM,

PX2300-1DI.

shown smaller

than actual size.

and silicone O-rings

available.

visit us online.

Cavity Volume: 0.27/0.08" pos./neg. port

Case: NEMA 4 (IP65)

Pressure Port: 1/4 NPT internal **Electrical Connection:** Internal barrier strip with 22.2 mm (0.875") conduit opening

Response Time: 50 ms (water)

Weight: 410 g (14.4 oz)

To Order	To Order				
RANGE (psid)	MODEL NO.	COMPATIBLE METERS			
0 to 1	PX2300-1DI	DP41-E, DP25B-E, DP-7700			
0 to 2	PX2300-2DI	DP41-E, DP25B-E, DP-7700			
0 to 5	PX2300-5DI	DP41-E, DP25B-E, DP-7700			
0 to 10	PX2300-10DI	DP41-E, DP25B-E, DP-7700			
0 to 25	PX2300-25DI	DP41-E, DP25B-E, DP-7700			
0 to 50	PX2300-50DI	DP41-E, DP25B-E, DP-7700			
0 to 100	PX2300-100DI	DP41-E, DP25B-E, DP-7700			
BI-DIRECTIO	NAL RANGE				
±0.5	PX2300-0.5BDI	DP41-E, DP25B-E, DP-7700			
±1	PX2300-1BDI	DP41-E, DP25B-E, DP-7700			
±2.5	PX2300-2.5BDI	DP41-E, DP25B-E, DP-7700			
±5	PX2300-5BDI	DP41-E, DP25B-E, DP-7700			
±10	PX2300-10BDI	DP41-E, DP25B-E, DP-7700			
±25	PX2300-25BDI	DP41-E, DP25B-E, DP-7700			
±50	PX2300-50BDI	DP41-E, DP25B-E, DP-7700			
Comoc complet	a with operator's manual				

Comes complete with operator's manual.

Ordering Examples: PX2300-5BDI, bi-directional range -5 to 5 psid transducer with current output.

PX2300-1DI, 0 to 1 psid range transducer with current output.

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PRESSURE TRANSMITTER

10:1 Turndown in 4 steps Maximum Ranges 50 to 250 psi (3.4 to 17 bar) 0 to 5 Vdc, 1 to 5 Vdc,

PX2310 Series



- ✓ Each Model has 4 Unidirectional and 4 Bi-Directional Ranges
- ✓ 4 Selectable Outputs, 0 to 5 Vdc, 1 to 5 Vdc, 0 to 10 Vdc, 4 to 20 mA (2-Wire)
- ✓ Jumper Selectable Hi/Lo Ports
- ✓ 4-Digit LCD can Show **Either Line or Differential Pressure**
- ✓ Pushbutton or Remote Zero
- ✓ Rugged NEMA 4 Cast **Aluminum Housing**

Applications

- Energy Management **Systems**
- Process Control Systems
- **✓** Flow Measurement
- Liquid Level
- ✓ Pressure Drops **Across Filters**

The PX2310 offers the user unprecedented flexibility allowing field selection of range, type of output and field zeroing. The user can also select which port is hi and lo via jumpers. The 4-digit display can also be set to read either line pressure or differential pressure. The entire package is rugged cast aluminum with a NEMA 4 rating and the solid state sensor offers excellent accuracy, stability, and low long term drift.



SPECIFICATIONS

Accuracy RSS Ranges A, B & C: ±1.0% Full Scale; Range D:

±2.0% RSS full scale

Storage Temperature: -20 to 85°C

(-4 to 185°F)

Operating Temperature: -20 to 85°C (-4 to 185°F) (Limits of Electronics only)

Compensated Range: 0 to 54°C

(32 to 130°F)

Zero Shift (Over Compensated

Range): 2.0% full scale

Span Shift (Over Compensated

Range): 2.0% full scale

Response Time: 1 to 5 seconds,

selectable

Proof Pressure: 2.2 x full scale Burst Pressure: 40 x full scale Vibration: 10 g from 50 to 2000 Hz

Shock: 200 q

Excitation: 12 to 30 Vdc @ 5 mA (typical)/18 to 28 Vac 40 mA (typical)

(reverse polarity protected)

Output User Selectable:

Voltage: 0 to 5 Vdc, 0 to 10 Vdc, 1 to 5 Vdc 3-wire system

Current: 4 to 20 mA 2-wire system

(0 to 1000 Ω load)

Minimum Supply Voltage: Vdc = 12 + 0.2 x loop resistance

Maximum Supply Voltage:

 $Vdc = 30 + 0.004 \times loop resistance$

Electrical Connection: ½ in conduit Pressure Connection: 1/8-18 NPT

internal

Sensor Cavity Volume: 0.2 cc Case: Die cast aluminum,

powder coated

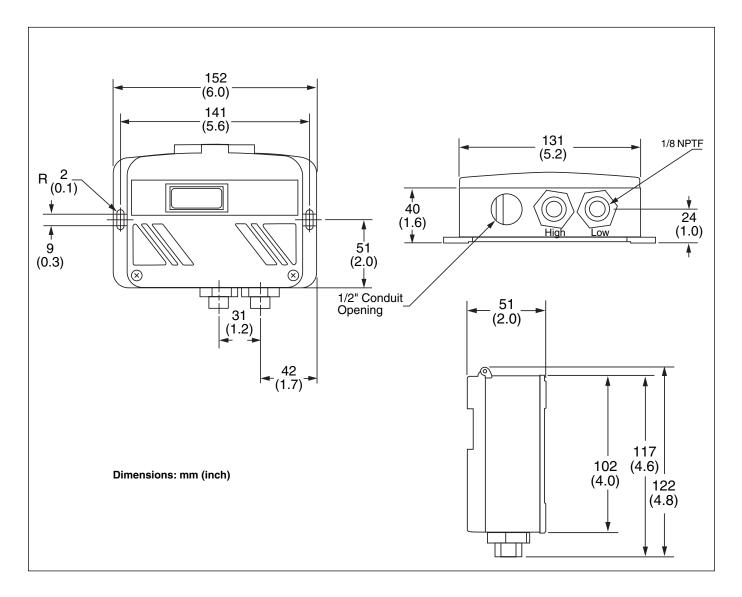
Environmental Protection: NEMA 4 Wetted Parts: 17-4 PH stainless steel (not recommended for hydrogen)

Dimensions:

102 L x 152 W x 51 mm diameter

(4.0 x 6 x 2")

Weight: 0.7 kg (25 oz)





DP25B-E shown smaller than actual size. For details visit omega.com/dp25b

To Order					
	USER SELECTABLE RANGES psi				MAXIMUM LINE
MODEL NUMBER	Α	В	С	D	PRESSURE psi
PX2310-050DX	0 to 50 (±50)	0 to 20 (±20)	0 to 10 (±10)	0 to 5 (±5)	50
PX2310-100DX	0 to 100 (±100)	0 to 50 (±50)	0 to 20 (±20)	0 to 10 (±10)	100
PX2310-250DX	0 to 250 (±250)	0 to 125 (±125)	0 to 50 (±50)	0 to 25 (±25)	250

Comes complete with operator's manual.

Ordering Examples: PX2310-050DX, rangeable differential pressure transmitter with selectable voltage or current output, maximum range 50 psi, minimum range 5 psi.

PX2310-250DX, rangeable differential pressure transmitter with selectable voltage or current output, maximum range 250 psi, minimum range 25 psi.

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DIFFERENTIAL PRESSURE SENSOR

0-1 to 0-250 psi (0-0.07 to 17.2 bar) Gage and Differential

PX26 Series

- Water and Many Other Liquids Can be Applied to Both Sides
- ✓ Gage and Differential **Models Available**
- Miniature PC Board **Mount Design**

OMEGA's PX26 Series pressure sensors feature state-of-the-art silicon technology that permits both sides of the diaphragm to handle liquids. A unique conductive seal between the silicon diaphragm and the plastic housing allows for wet/wet applications and lower production costs than typical gold wire silicon sensors. This new construction has a larger diaphragm than traditional silicon sensors, resulting in increased long-term stability.

SPECIFICATIONS

Excitation: 10 Vdc, 16 Vdc max @ 2 mA Output (@ 10 Vdc): 1 psi = 16.7 mV; 5 psi = 50 mV; >5 psi = 100 mV;250 psi = 150 mV

Linearity: ±0.25% FS BFSL typical

(±1% maximum) P2 > P1

Hysteresis and Repeatability: 0.2% FS

Zero Balance: ±1.5 mV Span Tolerance: ±3.0 mV 1-Year Stability: 0.5% FS

Operating Temperature: -40 to 85°C

(-40 to 185°F)

Compensated Temperature: 0 to 50°C (32 to 122°F)

Thermal Effects: Zero: 1 mV Span: 1% rdg

Proof Pressure: 20 psi for ≤5 psi range; 45 psi for 15 psi; 60 psi for 30 psi;

200 psi for 100 psi

Input Resistance: 7.5 kΩ Output Resistance: 2.5 kΩ Response Time: 1 ms Gage Type: Silicon sensor

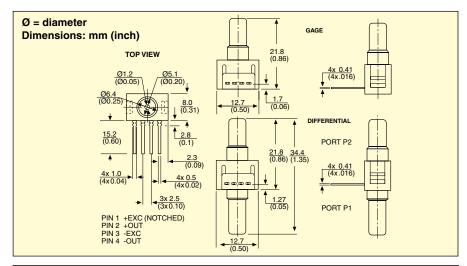
Wetted Parts: Polyethimide, silicon,

fluorosilicone

Weight: 2 g (0.07 oz)

Tubing sold separately. **∩**E OMEGA PX26-005DV, shown larger than actual size. CX136-4 connector, sold separately.

DP25B-S meter, sold separately, shown smaller than actual size. Visit omega.com/ dp25b for details.



To Order Visit omega.com/px26 for Pricing and Details				
RANG	E			
psig	bar	MODEL NO.	COMPATIBLE METERS	
0 to 1 psig	0 to 0.07	PX26-001GV	DP25B-S, DP460-S, DP41-S	
0 to 5 psig	0 to 0.34	PX26-005GV	DP25B-S, DP460-S, DP41-S	
0 to 15 psig	0 to 1.0	PX26-015GV	DP25B-S, DP460-S, DP41-S	
0 to 30 psig	0 to 2.1	PX26-030GV	DP25B-S, DP460-S, DP41-S	
0 to 100 psig	0 to 6.9	PX26-100GV	DP25B-S, DP460-S, DP41-S	
0 to 250 psig	0 to 17.2	PX26-250GV	DP25B-S, DP460-S, DP41-S	
±1 psid	±0.07	PX26-001DV	DP25B-S, DP460-S, DP41-S	
±5 psid	±0.34	PX26-005DV	DP25B-S, DP460-S, DP41-S	
±15 psid	±1.0	PX26-015DV	DP25B-S, DP460-S, DP41-S	
±30 psid	±2.1	PX26-030DV	DP25B-S, DP460-S, DP41-S	
±100 psid	±6.9	PX26-100DV	DP25B-S, DP460-S, DP41-S	
±250 psid	±17.2	PX26-250DV	DP25B-S, DP460-S, DP41-S	
ACCESSORIES				
MODEL NO.		DESCRIPTION		
CX136-4	4-pin matin	4-pin mating connector		
TX4-100	4-conducto	4-conductor copper wire, 30.5 m (100')		
TY316-100	Flexible pla	Flexible plastic tubing, 30.5 m (100')		

Comes complete with operator's manual.

Ordering Example: PX26-030DV, bi-directional range of ±30 psid.

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WITH BIDIRECTIONAL RANGES

PX2650 Series





Ranges from 0.25 inH₂O to 100 inH₂O

- ✓ For Use in Building Management, HVAC **Ducts, or Clean Rooms**
- Works with Unregulated **Voltage Source**
- ✓ Fully Protected Against **Incorrect Wiring**

SPECIFICATIONS

Excitation: 9 to 30 Vdc unregulated Output Impedance: <100 Ω Output Span: Set to 5 Vdc ±50 mV Zero Offset: Set to ±50 mV Accuracy: ±1% BFSL at constant temperature (includes linearity, repeatability and hysteresis)

Linearity: ±0.98% full scale (typical) **Hysteresis:** 0.1% full scale (typical) Repeatability: ±0.05% full scale **Compensated Temperature Range:**

-18 to 65°C (0 to 149°F) **Thermal Effects:** ±0.06%/°C (±0.033%/°F)

Proof Pressure: ±10 psi, all ranges Position Effect: Factory calibration

with diaphragm vertical

Zero Offset (%FS/G) Range

0 to 0.5 inH₂O 0.6 0 to 1 inH₂O 2.2 0 to 5 inH2O 1.4

Sensor: Capacitive

Media:

Air or similar non-conducting gases

Pressure Port:

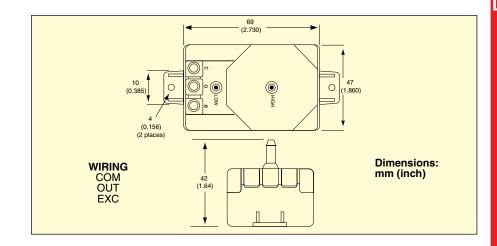
3/16" OD pressure fitting for 1/4" tube Case: Fire-retardant glass-filled polyester

Mounting: 2 tabs with #8 holes

Electrical Connection: Screw terminals

Weight: 85 g (3 oz)

PX2650-1BD5V, shown smaller than actual size.



To Order		
CABLE MODEL NO.	RANGE (inH ₂ O)	COMPATIBLE METERS
PX2650-0.5D5V	0 to 0.5	DP41-E, DP25B-E, DP-7700
PX2650-2D5V	0 to 2	DP41-E, DP25B-E, DP-7700
PX2650-10D5V	0 to 10	DP41-E, DP25B-E, DP-7700
PX2650-25D5V	0 to 25	DP41-E, DP25B-E, DP-7700
PX2650-50D5V	0 to 50	DP41-E, DP25B-E, DP-7700
PX2650-100D5V	0 to 100	DP41-E, DP25B-E, DP-7700
PX2650-0.25BD5V	±0.25	DP41-E, DP25B-E, DP-7700
PX2650-1BD5V	±1	DP41-E, DP25B-E, DP-7700
PX2650-2BD5V	±2	DP41-E, DP25B-E, DP-7700
PX2650-5BD5V	±5	DP41-E, DP25B-E, DP-7700
PX2650-10BD5V	±10	DP41-E, DP25B-E, DP-7700
PX2650-25BD5V	±25	DP41-E, DP25B-E, DP-7700
PX2650-50BD5V	±50	DP41-E, DP25B-E, DP-7700

Comes complete with operator's manual.

Ordering Examples: PX2650-0.5D5V, differential pressure transducer with range of 0 to 0.5 inH₂O and 0 to 5V output.

PY2650-205V differential pressure transducer with range of 0 to 2 inHaO and 0 to 5V output

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it **UIFFERENTIAL PRESSURE IMANSIVITIEN** WITH FIELD-SELECTABLE RANGES

Current or Voltage Output

PX274/277 Series

- ✓ Up to 6 Field-Selectable Ranges in a Single Unit
- ✓ Rugged NEMA 4 (IP65) **Enclosure with External Mounting Bracket**
- ✓ Up to 10 psid **Overpressure Without** Zero Shift
- Short Circuit and **Reverse Polarity Protected**

The PX274 is a rugged differential pressure transmitter that offers up to 6 field-selectable ranges in one unit. It incorporates a rugged NEMA 4 (IP65) dust-proof and splashproof enclosure with an external mounting bracket.

SPECIFICATIONS

Excitation:

PX274: 12 to 40 Vdc PX277: 12 to 35 Vdc

Output:

PX274: 4 to 20 mA (2 wire) PX277: 0 to 5 or 0 to 10 Vdc

Accuracy: ±1.0% FS **Operating Temp:** -18 to 80°C (0 to 175°F)



PX277-05D5V, shown smaller than actual size.

Compensated Temp: -4 to 65°C (25 to 150°F)

Thermal Effects:

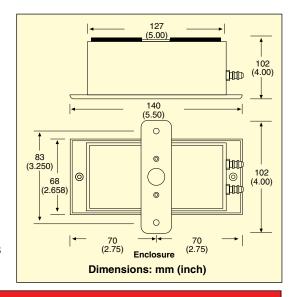
0.02% FS/°C (±0.0125%/°F) Proof Pressure: 10 psi Media Compatibility:

Clean, dry air or inert gas Pressure Fittings: 0.2" hose

barbs (use %6" flexible tubing)

Termination: Screw terminal Enclosure: Enamel coated, 18 GA steel, NEMA 4 (IP65) rated

Weight: 454 g (1.0 lb)



To Order				
CURRENT MODEL NO.	VOLTAGE MODEL NO.	SELECTABLE RANGES (inH ₂ O)	COMPATIBLE METERS	
PX274-0.1DI	PX277-0.1D5V	0 to 0.1, -0.05 to +0.05	DP24-E, DP25B-E, DP41-E	
PX274-01DI	PX277-01D5V	0 to 1.0, 0 to 0.5, 0 to 0.25 -0.5 to 0.5, -0.25 to 0.25, -0.125 to 0.125	DP24-E, DP25B-E, DP41-E	
PX274-05DI	PX277-05D5V	0 to 5.0, 0 to 2.5, 0 to 1.25 -2.5 to 2.5, -1.25 to 1.25, -0.625 to 0.625	DP24-E, DP25B-E, DP41-E	
PX274-30DI	PX277-30D5V	0 to 30, 0 to 15, 0 to 7.5, -15 to 15, -7.5 to 7.5, -3.75 to 3.75	DP24-E, DP25B-E, DP41-E	

ACCESSORY

MODEL NO.	DESCRIPTION
PX270-PROBE	Static pressure probe 101.6 mm (4") length

Comes complete with operator's manual.

Ordering Examples: PX274-0.1DI, current output pressure transmitter with user-selectable ranges of 0 to 0.1 and -0.05 to 0.05 inH₂O. PX277-05D5V, voltage output pressure transmitter with user-selectable ranges between ±0.625 inH₂O and 0 to 5 inH₂O.

PX2760-600A5V, shown actual size.

PRESSURE TRANSDUCER

Barometric Pressure

PX2760 Series



- Rugged Capacitive Design
- ✓ Excellent Long-Term **Stability**
- ✓ Fast Response Time
- ✓ Small Size
- ✓ Integral Mounting Bracket
- ✓ Instant Warm-Up

OMEGA's PX2760 Series barometric pressure transducers use a capacitive sensor that has excellent thermal stability and low hysteresis. The signal is processed through a custom ASIC, ensuring long-term reliability and accuracy. The amplified 0.1 to 5.1 Vdc output makes these transducers compatible with most process controllers and computer interface equipment and is virtually immune to EMI and RFI.

SPECIFICATIONS

Excitation: 12 Vdc (9 to 14.5 Vdc max)

Power Consumption: <0.2 W Output Impedance: $<5 \Omega$ Output: 0.1 to 5.1 Vdc, 3-wire

Accuracy: ±0.25% span RSS at constant temperature (includes linearity,

repeatability and hysteresis) Resolution: Infinite, limited only by noise level (0.005% FS)

Response Time: <10 ms to reach 90%

Long-Term Stability: ±0.25% FS over

6 months @ 70°F

Operating Temperature Range: -20 to 80°C (-4 to 176°F)

Compensated Temperature Range: 0 to 55°C (32 to 131°F)

Storage Temperature: -55 to 120°C (-67 to 248°F)

Thermal Zero Effect: ±0.01%/°F span

Thermal Span Effect: ±0.01%/°F span

PX2760, back view. CEOMEGA

Pressure Ratings:

Shock: 50 g operating, ½ sine 10 ms

Vibration: 2 g from 5 to 500 Hz Acceleration: 10 g maximum Media: Dry or non-condensing gases

compatible with wetted parts

Wetted Parts: Stainless steel, alumina.

gold and elastomer

Sensor: Capacitive

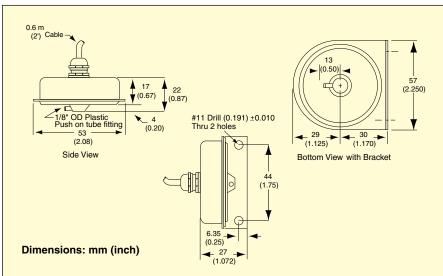
Pressure Port: 1/8" tube fitting

Electrical Connection: 0.6 m (2') cable



0.6 m (2')

cable



To Order				
RANGE (Absolute Pres)	MODEL NO.	COMPATIBLE METERS		
600 to 1100 mbar	PX2760-600A5V	DP41-E, DP25B-E, DP-3002E		
800 to 1100 mbar	PX2760-800A5V	DP41-E, DP25B-E, DP-3002E		
0 to 20 psia	PX2760-20A5V	DP41-E, DP25B-E, DP-3002E		
Comos complete with	oporator's manual			

Comes complete with operator's manual.

Ordering Example: PX2760-600A5V, barometric range pressure transducer, 600 to 1100 mbar absolute, with voltage output.

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Current or Voltage Output

PX274 Series

- ✓ Up to 6 Field-Selectable Ranges in a Single Unit
- ✓ Rugged NEMA 4 (IP65) **Enclosure with External Mounting Bracket**
- ✓ Up to 10 psid **Overpressure Without** Zero Shift
- Short Circuit and **Reverse Polarity Protected**

The PX274 is a rugged differential pressure transmitter that offers up to 6 field-selectable ranges in one unit. It incorporates a rugged NEMA 4 (IP65) dust-proof and splashproof enclosure with an external mounting bracket.

SPECIFICATIONS

Excitation:

PX274: 12 to 40 Vdc PX277: 12 to 35 Vdc

Output:

PX274: 4 to 20 mA (2 wire) PX277: 0 to 5 or 0 to 10 Vdc

Accuracy: ±1.0% FS **Operating Temp:** -18 to 80°C (0 to 175°F)



PX277-05D5V, shown smaller than actual size.

Compensated Temp: -4 to 65°C (25 to 150°F)

Thermal Effects:

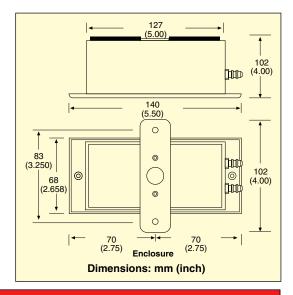
0.02% FS/°C (±0.0125%/°F) Proof Pressure: 10 psi Media Compatibility:

Clean, dry air or inert gas Pressure Fittings: 0.2" hose

barbs (use %6" flexible tubing)

Termination: Screw terminal Enclosure: Enamel coated, 18 GA steel, NEMA 4 (IP65) rated

Weight: 454 g (1.0 lb)



To Order				
CURRENT MODEL NO.	VOLTAGE MODEL NO.	SELECTABLE RANGES (inH ₂ O)	COMPATIBLE METERS	
PX274-0.1DI	PX277-0.1D5V	0 to 0.1, -0.05 to +0.05	DP24-E, DP25B-E, DP41-E	
PX274-01DI	PX277-01D5V	0 to 1.0, 0 to 0.5, 0 to 0.25 -0.5 to 0.5, -0.25 to 0.25, -0.125 to 0.125	DP24-E, DP25B-E, DP41-E	
PX274-05DI	PX277-05D5V	0 to 5.0, 0 to 2.5, 0 to 1.25 -2.5 to 2.5, -1.25 to 1.25, -0.625 to 0.625	DP24-E, DP25B-E, DP41-E	
PX274-30DI	PX277-30D5V	0 to 30, 0 to 15, 0 to 7.5, -15 to 15, -7.5 to 7.5, -3.75 to 3.75	DP24-E, DP25B-E, DP41-E	

ACCESSORY

MODEL NO.	DESCRIPTION
PX270-PROBE	Static pressure probe 101.6 mm (4") length

Comes complete with operator's manual.

Ordering Examples: PX274-0.1DI, current output pressure transmitter with user-selectable ranges of 0 to 0.1 and -0.05 to 0.05 in H₂O. PX277-05D5V, voltage output pressure transmitter with user-selectable ranges between ±0.625 inH₂O and 0 to 5 inH₂O.

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PRESSURE TRANSDUCER WITH FIELD SELECTABLE RANGES





- ✓ Up to 6 Field Selectable Ranges in a Single Unit
- Rugged Panel Mount Chassis
- **✓ NIST Traceable Calibration**
- Up to 10 psi Differential Overpressure without Zero Shift

The PX278 is a rugged, differential pressure transducer which offers up to six field selectable ranges in one unit. The PX278 incorporates a rugged, steel panel mount chassis and is ideal for OEM applications.

SPECIFICATIONS

Excitation: 12 to 35 Vdc Output: 0 to 5 or 0 to 10 Vdc Accuracy: ±1.0% FS

Operating Temp.: -18 to 80°C

(0 to 175°F)

Compensated Temp.: -4 to 65°C

(25 to 150°F)

Thermal Effects:

0.02% FS/°C (±0.0125% FS/°F)

Static Pressure: 10 psi **Media Compatibility:** Clean dry air or inert gas

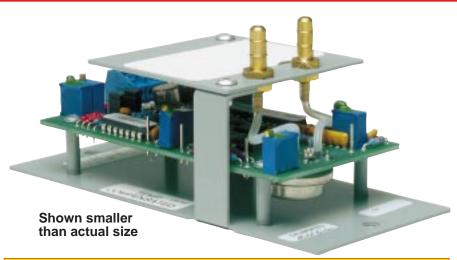
Pressure Fittings: 0.2" hose barbs

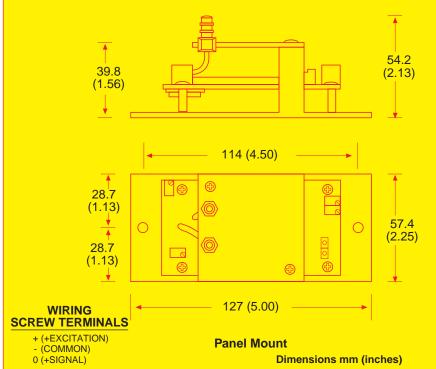
(use 3/6" Tygon tubing)

Termination: Screw terminal block
Enclosure: Enamel coated, 18 GA steel,

panel mount chassis

Weight: 454 g (1 lb)





To Order (Specify Model Number)			
MODEL NO.	Selectable Ranges (inH2O)	PRICE	COMPATIBLE METERS
PX278-0.1D5V	0 to 0.1, -0.05 to 0.05	\$175	DP24-E, DP25-E, DP41-E
PX278-01D5V	0 to 1.0, 0 to 0.5, 0 to 0.25 -0.5 to 0.5, -0.25 to 0.25, -0.125 to 0.125	175	DP24-E, DP25-E, DP41-E
PX278-05D5V	0 to 5.0, 0 to 2.5, 0 to 1.25, -2.5 to 2.5, -1.25 to 1.25, -0.625 to 0.625	175	DP24-E, DP25-E, DP41-E
PX278-30D5V	0 to 30, 0 to 15, 0 to 7.5,-15 to 15, -7.5 to 7.5, -3.75 to 3.75	175	DP24-E, DP25-E, DP41-E

Ordering Example: PX278-0.1D5V, pressure transducer with user selectable ranges of 0 to 0.1, and -0.05 to 0.05 inches of water, \$175

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PRESSURE TRANSMITTER

FAST RESPONSE AND LONG TERM RELIABILITY

Barometric (Absolute) **Pressure Ranges** 500-1100 hPa (mb) to 800-1100 hPa (mb)

PX2780 Series



Applications

- Environmental **Monitoring Systems**
- ✓ Weather Measurement **Systems**
- ✓ Environmental **Data Logging**
- ✓ Laboratory and Test **Station Monitoring**

The PX2780 high accuracy barometric pressure transducers are designed for applications in industry and science where accuracy, fast dynamic response and long term stability are important. The sensor and electronics are packaged in a rugged stainless steel and polyester case. A removable 5-pin terminal strip makes fast and secure connections. A high accuracy ceramic sensor is coupled with a digital compensation circuit using a custom ASIC to assure consistent accuracy and reliability over a broad range of environmental conditions. There is also a sleep mode where the unit only draws 1 micro amp that allows almost instant turn on/ reading for remote applications.

SPECIFICATIONS

Accuracy: See table on next page Resolution: 0.1 hPa (mb)

Long Term Stability: <±0.1 hPa

(mb)/year

Warm-Up Time: <1 second

Warm-Up Shift: <0.1 hPa (mb) maximum

Response Time: <100 ms Proof Pressure: 1500 hPa (mb)

(<±0.2% full scale/100°F) Sensitivity Effects: <±0.09% full scale/50°C (<±0.1% full scale/100°F)

Burst Pressure: 2000 hPa (mb)

(-76 to 248°F)

(-40 to 140°F)

(-40 to 140°F)

Zero Shift:

Storage Temperature: -60 to 120°C

Operating Temperature: -40 to 60°C

Compensated Range: -40 to 60°C

Barometric: <±0.18% full scale/50°C

EOMEGA Model: PX2780 Range: 600-1100mB Output: 0-5VDC Supply: 9.5V-28VDC Serial: 2245800 PX2780-600B5V shown larger than actual size.

> Excitation: 9.5 to 28 Vdc (3 mA operate mode, 1 µA sleep mode) 3- or 4-wire circuit

Output: 0 to 5 Vdc

Full Scale Span Setting: ±5 mV

Zero Setting: ±5 mV Output Impedance: <10 Ω

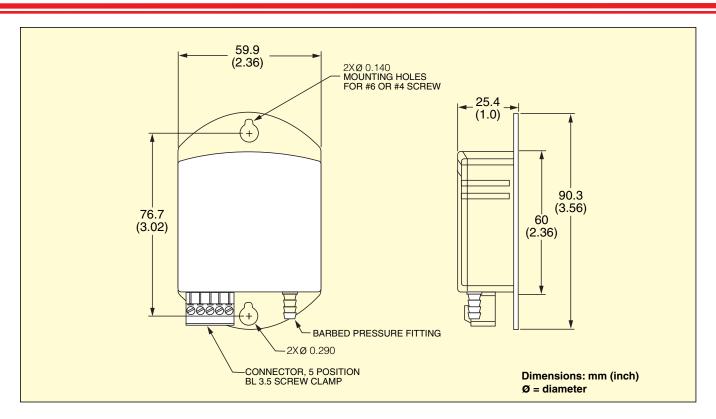
Electrical Connection: Removable

5-pin terminal strip

Pressure Connection: 1/8" barbed fitting Pressure Media: Non-condensing air

or gas

Weight: 137 g (4.8 oz) Mounting: Mounting plate





DP25B-E shown smaller than actual size. For details visit omega.com/dp25b

ACCURACY [hPa (mbar)] RSS*				
	RANGE (hPa)			
TEMPERATURE	500	600	800	
20°C (68°F)	±0.6	±0.5	±0.3	
0 to 40°C (32 to 104°F)	±1.2	±1.0	±0.6	
-20 to 50°C (-4 to 122°F)	±2.0	±1.5	±1	
-40 to 60°C (-40 to 140°F)	±2.5	±2.0	±1.5	
Non-linearity	±0.5	±0.4	±0.25	
Hysteresis	±0.06	±0.05	±0.03	
Non-repeatability	±0.04	±0.03	±0.02	

^{*} RSS of end point non-linearity, hysteresis, non-repeatability and calibration uncertainty

To Order	
MODEL NUMBER	BAROMETRIC RANGES (ABSOLUTE PRESSURE)
PX2780-500B5V	500 to 1100 hPa (mb)
PX2780-600B5V	600 to 1100 hPa (mb)
PX2780-600NB5V	600 to 1060 hPa (mb)
PX2780-800B5V	800 to 1100 hPa (mb)
PX2780-800NB5V	800 to 1060 hPa (mb)

Comes complete with NIST traceable calibration certificate and operator's manual.

Ordering Examples: PX2780-800B5V, high accuracy barometric transmitter with 0 to 5 Vdc output, range 500 to 1100 hPa (mb).

PX2780-600NB5V, high accuracy barometric transmitter with 0 to 5 Vdc output, range 600 to 1060 hPa (mb).

Pressure Transmitter with Display, Rangeable Wet/Wet Differential

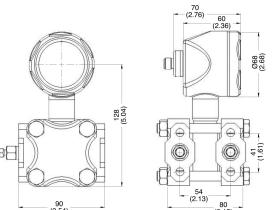
Product Details

The Omega differential PX3005-DIFF is a compact, rangeable, pressure transmitter ideal for monitoring pressures in process automation, hydraulic systems, compressors, pumps, and in tank level applications where consistent, reliable pressure measurement is essential. The PX3005-DIFF utilizes a unique encapsulation construction of a MEMs piezoresistive pressure sensor coupled to an advanced microprocessing to provide superior accuracy and performance.

The unique construction enables high line pressure operations and superior protection from pressure overloads. The rugged 316 stainless-steel enclosure is IP67 rated making it suitable for wash down environments. A 5-digit backlit LCD allows for a full precision representation of process variable. Available in ranges from 1 to 1,500 psi, the intelligent transmitter module allows for configuration of the 4 to 20 mA signal, display of input or output, and choice of 19 measurement units. The output signal can be adjusted to re-arrange the transmitter or "tare" unwanted fluid head preloads. Rangeability is capable of adjusting zero and span are from -100 to 100% FS URL (Upper Range Limit) with a minimum span of 30% URL. This means a 15 psi transducer can have the zero set between -15 to FS 15 psi. For example, zero could be set for -15 psi and maximum 15 psi so the output would be 4 mA at -15 psi, midpoint 12 mA would be 0 psi and 20 mA would be 15 psi.

Features

- 0.075% Accuracy
- Linear or Square Root Output
- Adjustable Pulsation Dampening
- LCD Displays Either Process Variable, mA, or %
- Nineteen User Selectable Engineering Units
- IP67 316 SS Enclosure







Product Number	Pressure Range	Pressure Type
PX3005-25WDWBI	-25 to 25 inH2O	Differential
PX3005-160WDWBI	-160 to 160 inH2O	Differential
PX3005-1KWDWBI	-1,000 to 1,000 inH2O	Differential
PX3005-150DWBI	-70 to 150 psi	Differential
PX3005-400DWBI	-70 to 400 psi	Differential
PX3005-1.5KDWBI	-70 to 1,500 psi	Differential

Specifications

Turndown = nominal range of the device / set span of device

EXAMPLE: a PX3005-1KWDWBI with set span of 500"H2O TD = 1000"H2O/500"H2O = 2

Accuracy (NLHR, 20°C ±5°C):

±0.075TD% SPAN

(Square root output accuracy is 1.5 times linear output accuracy)

Long Term Stability:

±0.2% URL/60 months

Ambient Temperature Effects -20 to 80°C (-4 to 176°F):

±(0.1 +0.1TD)% SPAN

Static Pressure Effects:

Effect on zero ±0.15TD % SPAN/10MPa (1450 psi); Effect

Power Supply Effects:

± 0.005TD% SPAN/V (Zero and Span)

Mounting Position Effects:

Install error less than 400Pa (1.60" H2O) can be

corrected by PV = 0 reset

Vibration Effects:

GB/T 1827.3/IEC61298-3 tests, 20g (5 to 2000 HZ, max

<±3 mm), <0.1% URL

Supply Voltage:

10.5 to 55VDC

Output Signal:

4 to 20mA Two wire, linear or square root output selectable

Sensor Response Time:

200 mS

Damping Time:

Selectable, 0 to 100 S

Load Resistance Ω :

<(U-10.5)/0.021

Transmission Distance:

< 1000m

Power Consumption:

500mW(20.8mA output @ 24VDC)

Operating Temperature:

-20 to 70°C (-4 to 160°F)

Storage Temperature:

-40 to 85°C (-40 to 185°F)

Media Temperature:

-40 to 120°C (-40 to 250°F)

Environmental Rating:

IP67

Media:

Fluids and gasses compatible with 316 SS

Process Connection/Material:

14" -18NPT F/316 SS

Electrical Connection:

4 pin male M12

Isolating Diaphragm:

316L SS

Sensor Fill Fluid:

Silicone Oil

Sensor Seal:

O-ring, FKM

Housing Material:

316 SS

Weight:

Net Weight: about 3kg (without mounting bracket and

process connection adaptor)

Range Limit Table

Nomin	al Value	Minim	um Span	UPPE	R (URL)	LOWE	R (LRL)		Pressure imit		de Over ge Limit		Side Over ange Limit
Mbar	"H ₂ O	Mbar	"H ₂ O	Mbar	"H ₂ O	Mbar	"H ₂ O	Bar	Psi	Bar	Psi	Bar	Psi ,
60	25	0.02	8.0	60	25	-60	-25	250	3600	250	3600	160	2300
400	160	0.04	1.6	400	160	-400	-160	400	5750	250	3600	160	2300
2500	1000	0.25	10	2500	1000	-2500	-1000	400	5750	250	3600	160	2300
Bar	Psi	Bar	Psi	Bar	Psi	Bar	Psi	Bar	Psi	Bar	Psi	Bar	Psi
10	150	0.1	1.5	10	150	-5	-70	400	5750	250	3600	160	2300
30	400	0.3	4	30	400	-5	-70	400	5750	250	3600	160	2300
100	1500	1	15	100	1500	-5	-70	400	5750	250	3600	160	2300

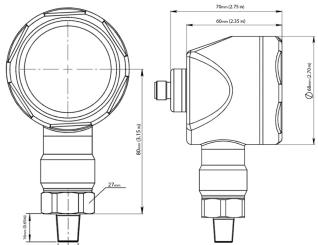
Pressure Transmitter with Display, Industrial, Rangeable

Product Details

The OMEGA PX3005 is a compact, rangeable, pressure transmitter ideal for monitoring pressures in process automation, hydraulic systems, compressors, pumps and in tank level applications where consistent, reliable pressure measurement is essential. The PX3005 utilizes proven MEMs piezoresistive pressure sensors coupled to advanced microprocessing to provide superior accuracy and performance. The rugged 316 stainless-steel enclosure is IP67 rated making it suitable for washdown environments. A 5 digit backlit LCD allows for full precision representation of process variable. Available in ranges from 1 psi to 15,000 psi, the clever transmitter module allows for configuration of the 4-20 mA signal, display of input or output, and choice of 19 measurement units. The output signal can be adjusted to re-range the transmitter or "tare" unwanted fluid head preloads. Rangeability is capable of adjusting zero and span are from -100% to 100% FS URL (Upper Range Limit) with a minimum span of 30% URL. This means a 15 psi transducer can have the zero set between -15 psi to FS 15 psi. For example, zero could be set for -15 psi and maximum 15 psi so the output would be 4 mA at -15 psi, midpoint 12 mA would be 0 psi and 20 mA would be 15 psi.

Features

- Compact Size
- IP67 Environmental Rating
- 316SS Wetted Parts
- Scale to Display 1 of 19 Engineering Units
- Accuracy +/- 0.2% URL
- Choose Display Mode of Process Variable, mA, or %
- Calibration Report Included (Standard)







Product Number	Pressure Range	Pressure Type
PX3005-005AI	0 to 5 psi	Absolute
PX3005-015AI	0 to 15 psi	Absolute
PX3005-030AI	0 to 30 psi	Absolute
PX3005-100AI	0 to 100 psi	Absolute
PX3005-250AI	0 to 250 psi	Absolute
PX3005-500AI	0 to 500 psi	Absolute
PX3005-001GI	-1 to 1 psi	Compound Gauge
PX3005-003GI	-3 to 3 psi	Compound Gauge
PX3005-005GI	-5 to 5 psi	Compound Gauge
PX3005-015GI	-15 to 15 psi	Compound Gauge
PX3005-030GI	-15 to 30 psi	Compound Gauge
PX3005-100GI	-15 to 100 psi	Compound Gauge
PX3005-150AI	-15 to 150 psi	Compound Gauge
PX3005-250GI	-15 to 250 psi	Compound Gauge
PX3005-500GI	-15 to 500 psi	Compound Gauge
PX3005-1.0KGI	-15 to 1,000 psi	Compound Gauge
PX3005-1.5KGI	-15 to 1,500 psi	Compound Gauge
PX3005-3.0KGI	-15 to 3,000 psi	Compound Gauge
PX3005-5.0KGI	-15 to 5,000 psi	Compound Gauge
PX3005-7.5KGI	-15 to 7,500 psi	Compound Gauge
PX3005-10KGI	-15 to 10,000 psi	Compound Gauge
PY3005-15KGI	-15 to 15 000 nei	Compound Gauge

Specifications

Turndown = nominal range of the device / set span of device EXAMPLE: a PX3005-100GI with set span of 50psi, TD = 100psi/50psi = 2

Accuracy (NLHR, 20°C ±5°C):

±0.2TD% SPAN

Long Term Stability:

+/- 0.1% URL / year

Ambient Temperature Effects (-20°C to 70°C):

±(0.1+0.1TD) % SPAN

Power Supply Effects:

± 0.005TD% SPAN/V (Zero and Span)

Mounting Position Effects:

Apply to any position. Install error less than 400Pa can be corrected by PV=0 reset.

Vibration Effects:

GB/T 1827.3/IEC61298-3 tests,20g (5-2000HZ, max<±3mm)

<0.1% URL

Supply Voltage:

10.5 to 55VDC

Output Signal:

4-20mA Two wire

Sensor Response Time:

200 mS

Damping Time:

Selectable, 0 to 100 S

Load Resistance Ω :

<(U-10.5)/0.021

Transmission Distance:

< 1000m

Power Consumption:

500mW(20.8mA output @ 24VDC)

Operating Temperature:

-20 to 70°C (-4 to 160°F)

Storage Temperature:

-40 to 85°C (-40 to 185°F)

Media Temperature:

-40 to 120°C (-40 to 250°F)

Environmental Rating:

IP67

Media:

Fluids and gasses compatible with 316 SS and FKM

Process Connection/Material:

1/4"-18NPT (M) / 316 SS

Electrical Connection:

4 pin male M12

Isolating Diaphragm:

4 pin male M12

Sensor Fill Fluid:

Silicone Oil

Sensor Seal:

O-ring, FKM

Housing Material:

316 SS

Weight:

0.52kg

Range Limit Table:

table

Absolute Pressure Ranges

Nomi	nal Value	Minin	num Span	Uppe	r (URL)	Lower	(URL)	Over Ra	ange Limit
kPa	PSIA	kPa	PSIA	kPa	PSIA	kPa	PSIA	kPa	PSIA
35	5	10	1.5	35	5	0	0	50	7.5
100	15	35	5	100	15	0	0	150	22
200	30	100	15	200	30	0	0	300	45
700	100	350	50	700	100	0	0	1050	150
MPa	PSIA	MPa	PSIA	MPa	PSIA	MPa	PSIA	MPa	PSIA
1	150	0.5	75	1	150	0	0	1.5	220
1.7	250	1	150	1.7	250	0	0	2.55	370
3.5	500	1.7	250	3.5	500	0	0	5.25	750

Gage Pressure Ranges

Nominal Value		Minin	num Span	Uppe	er (URL)	Lowe	r (URL)	Over	Range Limit
kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI
7	1	5	0.75	7	1	-7	-1	10.5	1.5
20	3	10	1.5	20	3	-20	-3	30	4.5
35	5	20	3	35	5	-35	-5	52.5	7.5
100	15	35	5	100	15	VAC	VAC	150	22
200	30	100	15	200	30	VAC	VAC	300	45
700	100	350	30	700	100	VAC	VAC	1050	150
МРа	PSI	MPa	PSI	MPa	PSI	MPa	PSI	MPa	PSI
1	150	0.5	75	1	150	VAC	VAC	1.5	220
1.7	250	1	150	1.7	250	VAC	VAC	2.55	370
3.5	500	1.7	250	3.5	500	VAC	VAC	5.25	750
7	1000	3.5	500	7	1000	VAC	VAC	10.5	1500
17	1500	7	1000	17	1500	VAC	VAC	25.5	3700
35	3000	17	2500	35	3000	VAC	VAC	52.5	7500
40	5000	20	3000	40	5000	VAC	VAC	60	8700
60	7500	30	4500	60	7500	VAC	VAC	90	13000
70	10000	35	5000	70	10000	VAC	VAC	105	15000
100	15000	50	7250	100	15000	VAC	VAC	150	21750

Sanitary, Rangeable, Pressure Transmitters with Display

Product Details

Omega's PX3005K is a compact, rangeable, digital sanitary pressure transmitter that is ideal for monitoring pressures in food and pharmaceutical industries where a flush diaphragm design is required. The rugged 316 stainless-steel enclosure is IP67 rated making it suitable for washdown environments. A 5-digit backlit LCD allows for full precision representation of process variable. This hygienic design, the OMEGA PX3005K has been issued 3-A symbol authorization and meets the requirements of the 3-A Sanitary Standards. The best choice for process automation and tank level applications where consistent reliable pressure management are essential.

Features

- For Sanitary or CIP (Clean-in-Place) Applications
- The OMEGA PX3005K has been issued 3-A symbol authorization and meets the requirements of the 3-A Sanitary Standards for food, beverage, dairy, and pharmaceutical applications
- IP67 316 SS enclosure protects against harsh environments
- 5 digit display for easy monitoring
- ± 0.2% URL accuracy for precise pressure measurements



Accuracy: ±0.2TD% SPAN

Supply Voltage: 10.5 to 55VDC

Output Signal: 4-20mA Two wire

Sensor Response Time: 200 mS

Operating Temperature: -20 to 70°C (-4 to 160°F) Storage Temperature: -40 to 85°C (-40 to 185°F) Media Temperature: -40 to 120°C (-40 to 250°F)

Environmental Rating: IP67

Media: Fluids and gasses compatible with 316 SS and FKM

Process Connection/Material: Tri-Clamp Electrical Connection: 4 pin male M12 Isolating Diaphragm: 316L SS

Sensor Fill Fluid: Silicone Oil Sensor Seal: O-ring, FKM Housing Material: >316 SS

Long Term Stability: ± 0.1% URL / year Damping Time: Selectable, 0 to 100 S Load Resistance: <(U-10.5)/0.021 Transmission Distance: < 1000m

Power Consumption: 500mW(20.8mA output @ 24VDC)
Ambient Temperature Effects (-20°C to 70°C): ±(0.1+0.1TD)

% SPAN

Power Supply Effects: $\pm\,0.005$ TD% SPAN/V (Zero and Span) Mounting Position Effects: Apply to any position. Install error

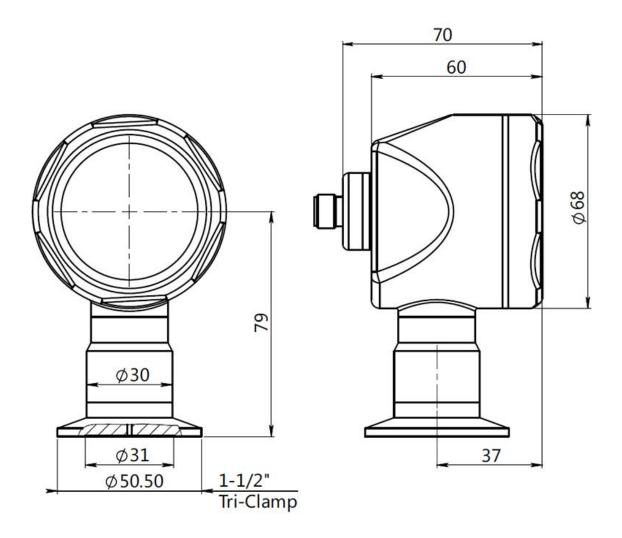
less than 0.06 psi can be corrected by PV=0 reset. **Vibration Effects:** GB/T 1827.3/IEC61298-3 tests,20g

(5-2000HZ, max <±3mm) <0.1% URL

Weight: 1.14 lbs



Product Number	Pressure Range	Pressure Type		
1.5" port size				
PX3005K01-005GI	-5 to 5 psi	Compound gauge		
PX3005K01-003GI	-3 to 3 psi	Compound gauge		
PX3005K01-015GI	-15 to 15 psi	Compound gauge		
PX3005K01-030GI	-15 to 30 psi	Compound gauge		
PX3005K01-100GI	-15 to100 psi	Compound gauge		
PX3005K01-150GI	-15 to150 psi	Compound gauge		
PX3005K01-250GI	-15 to 250 psi	Compound gauge		
PX3005K01-300GI	-15 to 300 psi	Compound gauge		
2" port size				
PX3005K02-003GI	-3 to 3 psi	Compound gauge		
PX3005K02-005GI	-5 to 5 psi	Compound gauge		
PX3005K02-015GI	-15 to 15 psi	Compound gauge		
PX3005K02-030GI	-15 to 30 psi	Compound gauge		
PX3005K02-100GI	-15 to100 psi	Compound gauge		
PX3005K02-150GI	-15 to150 psi	Compound gauge		
PX3005K02-250GI	-15 to 250 psi	Compound gauge		
PX3005K02-300GI	-15 to 300 psi	Compound gauge		



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Transducer/Transmitter Multimedia Compatibility
High-Performance Silicon Technology
Imperial Model

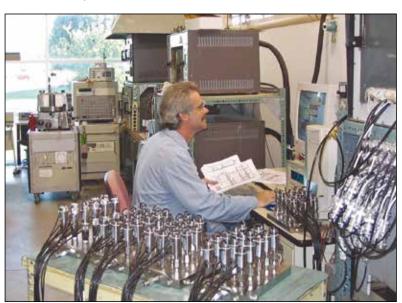
0-1 to 0-10,000 psi 0-0.07 to 0-690 bar 100 mV, 0 to 5 V, 0 to 10 V, and 4 to 20 mA Outputs

PX309 Series



- ✓ 1, 2 & 5 psi Low **Pressure Ranges!**
- ✓ All Stainless Steel Construction
- ✓ Gage, Absolute, Compound Gage or Vacuum Pressure
- Rugged Solid State Design
- ✓ High Stability, Low Drift
- ✓ 0.25% Static Accuracy
- ✓ IP65 Protection Class
- Stocked for Fast Delivery

We provide a complete range of services—from product inception, through design and prototypes, to manufacturing and testing. Our application engineers work closely with our customers to customize, design or create entirely new products. Call us—whether you're an OEM, manufacturer, or end user.







PX329-100GV

All models shown smaller than actual size.

Purpose Transducer Common Specifications for 100 mV, 0 to 5 Vdc, and 0 to 10 Vdc, 4 to 20 mA Outputs

- ✓ 1, 2 & 5 psi Low Pressure Ranges!
- All Stainless Steel Construction
- ✓ Gage or Absolute Pressure
- Rugged Solid State Design
- High Stability, Low Drift
- ✓ 0.25% Static Accuracy
- ✓ IP 65 Protection Class

Omega's PX309 Series models below 100 psi use a high-accuracy silicon sensor protected by an oil-filled stainless steel diaphragm. Units 100 psi and above use silicon strain gages molecularly bonded to the stainless steel diaphragm.

Common Specifications

Ranges: -15 to 50 psig, 0 to 1000

psia, 100 to 10,000 psig

Accuracy (Combined Linearity, Hysteresis and Repeatability): ±0.25% BSL, max

Minimum Resistance Between Transducer Body and Any Wire:

1M Ω @ 25 Vdc

Calibration: In vertical direction with fitting down, Compound range units are calibrated from Vac to FSO

Pressure Cycles: 10 million, minimum Pressure Overload: -15 to 50 psig and 0 to 1000 psia: 3 times rated pressure or 20 psi whichever is greater, 100 to 10,000 psig: 2 times rated pressure

Burst Pressure: -15 to 50 psig and 0 to 1000 psia: 4 times rated pressure or 25 psi whichever is greater, 100 to 10,000 psig: 5 times rated pressure

Long Term Stability (1 Year): ±0.25% of FS, typical

Operating Temperature: -40 to 85°C (-40 to 185°F)

Pressure Port: 1/4-18 MNPT

Pressure Port Material: -15 to 50 psig and 0 to 1000 psia: 316 SS, 100 to 10,000 psig: SS 316 or 17-4 (0 to 500 PSI may contain HNBR O-ring in wetted pressure port assembly) Bandwidth: DC to 1 kHz (typical)

CE Compliant

Shock: 50 g, 11 ms half-sine

Vibration: ±20 g

Response Time: <1 millisecond Weight: PX309/PX319/PX329/PX359:

<90 grams
IP Rating: IP65
RoHS: Compliant

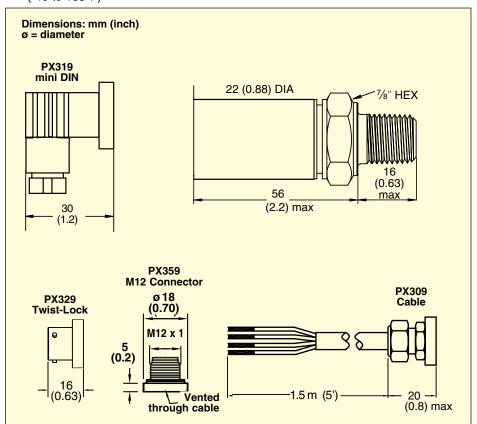


mV Output Wiring								
Wiring	Cable	M12 and mini DIN	Twist- Lock					
Excitation (+)	Red	Pin 1	Pin A					
Output (+)	White	Pin 3	Pin C					
Output (-)	Green	Pin 4	Pin D					
Excitation (-)	Black	Pin 2	Pin B					
Spare	_	_	Pin E					
Vent	_	_	Pin F					

5 and 10 Vdc Output Wiring								
Wiring	Cable	M12 and mini DIN	Twist- Lock					
Excitation (+)	Red	Pin 1	Pin A					
Excitation (-)	Black	Pin 2	Pin B					
Output (+)	White	Pin 3	Pin C					
N/C†	_	Pin 4	Pin D					
Spare	_	_	Pin E					
Vent	_	_	Pin F					

mA Output Wiring								
Wiring	Cable	M12 and mini DIN	Twist- Lock					
Supply (+)	Red	Pin 1	Pin A					
Supply (-)	Black	Pin 2	Pin B					
N/C†	_	Pin 3	Pin C					
N/C [†]	_	Pin 4	Pin D					
Spare	_	_	Pin E					
Vent	_	_	Pin F					

[†] N/C: Do not connect any wires to this pin.



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PX309 Series with 100 mV Outputs

100 mV Output 0-1 to 0-10,000 psi 0-70 mbar to 0-690 bar

PX309 Series



100 mV Output **Specifications**

(In Addition to Common Specifications on page 2) Setting Accuracy Zero and Span: ±2% FS (±4% FS for 1 and 2 psi)

Supply Voltage:

-15 to 50 psig and 0 to 1000 psia: 10 Vdc, 100 to 10,000 psig: 5 Vdc typical

100 mV Outputs				
Range	Output	Excitation*		
200psia	66.7 mV	10 Vdc		
1 psig	20 mV	10 Vdc		
2 psig	40 mV	10 Vdc		
5 to 50 psig	100 mV	10 Vdc		
100 to 10,000 psig	100 mV	5 Vdc		
0 to -15 psig	0 to 100 mV	10 Vdc		
-15 to 0	-100 to 0	10 Vdc		
to +15 psig	to +100 mV	10 vuc		
-15 to 30/50 psig	0 to 100 mV	10 Vdc		
-15 to 100/150 psig	0 to 100 mV	5 Vdc		

^{*} Ratiometric Excitation Range: 2 to 10 or 1 to 5 Vdc

Input Impedance: 3k Ohms Min Output Impedance: 3k Ohms Min

Zero Shift:

-15 to 50 psig and 0 to 1000 psia: ±0.03%/°C (0 to 5 psig/ psia is ±0.06%/°C, 0 to 2 psig is ±0.08%/°C, 0 to 1 psig is ±0.1%/°C). 100 to 10,000 psig: ±2% over compensated range ref 25°C

Span Shift:

-15 to 50 psig and 0 to 1000 psia: ±0.03%/°C (0 to 5 psig/ psia is ±0.04%/°C, 0 to 2 psig is ±0.05%/°C, 0 to 1 psig is ±0.06%/°C). 100 to 10,000 psig: ±2% over compensated range ref 25°C

Compensated Temperature:

-15 to 50 psig and 0 to 1000 psia: 0 to 50°C, 100 to 10,000 psig: 0 to 55°C

> Metric Versions of PX309 also available from Omega. Please see PXM309 series.

PX319-050GV, mini DIN connector included, shown smaller than actual size.

To Orde	r					
	ange					
psi	bar	1.5 m Cable Connection	mini DIN Connection	Twist-Lock Connection	M12 Connection	
Absolute Pressure						
0 to 5	0 to 0.34	PX309-005AV	PX319-005AV	PX329-005AV	PX359-005AV	
0 to 15	0 to 1	PX309-015AV	PX319-015AV	PX329-015AV	PX359-015AV	
0 to 30	0 to 2.1	PX309-030AV	PX319-030AV	PX329-030AV	PX359-030AV	
0 to 50	0 to 3.4	PX309-050AV	PX319-050AV	PX329-050AV	PX359-050AV	
0 to 100	0 to 6.9	PX309-100AV	PX319-100AV	PX329-100AV	PX359-100AV	
0 to 200	0 to 14	PX309-200AV	PX319-200AV	PX329-200AV	PX359-200AV	
0 to 300	0 to 21	PX309-300AV	PX319-300AV	PX329-300AV	PX359-300AV	
0 to 500	0 to 34	PX309-500AV	PX319-500AV	PX329-500AV	PX359-500AV	
0 to 1000	0 to 69	PX309-1KAV	PX319-1KAV	PX329-1KAV	PX359-1KAV	
Gage Press	sure					
0 to 1	0 to 0.07	PX309-001GV	PX319-001GV	PX329-001GV	PX359-001GV	
0 to 2	0 to 0.14	PX309-002GV	PX319-002GV	PX329-002GV	PX359-002GV	
0 to 5	0 to 0.34	PX309-005GV	PX319-005GV	PX329-005GV	PX359-005GV	
0 to 15	0 to 1	PX309-015GV	PX319-015GV	PX329-015GV	PX359-015GV	
0 to 30	0 to 2.1	PX309-030GV	PX319-030GV	PX329-030GV	PX359-030GV	
0 to 50	0 to 3.4	PX309-050GV	PX319-050GV	PX329-050GV	PX359-050GV	
0 to 100	0 to 6.9	PX309-100GV	PX319-100GV	PX329-100GV	PX359-100GV	
0 to 150	0 to 10	PX309-150GV	PX319-150GV	PX329-150GV	PX359-150GV	
0 to 200	0 to 14	PX309-200GV	PX319-200GV	PX329-200GV	PX359-200GV	
0 to 300	0 to 21	PX309-300GV	PX319-300GV	PX329-300GV	PX359-300GV	
0 to 500	0 to 34	PX309-500GV	PX319-500GV	PX329-500GV	PX359-500GV	
0 to 1000	0 to 69	PX309-1KGV	PX319-1KGV	PX329-1KGV	PX359-1KGV	
0 to 2000	0 to 138	PX309-2KGV	PX319-2KGV	PX329-2KGV	PX359-2KGV	
0 to 3000	0 to 207	PX309-3KGV	PX319-3KGV	PX329-3KGV	PX359-3KGV	
0 to 5000	0 to 345	PX309-5KGV	PX319-5KGV	PX329-5KGV	PX359-5KGV	
0 to 7500	0 to 517	PX309-7.5KGV	PX319-7.5KGV	PX329-7.5KGV	PX359-7.5KGV	
0 to 10,000	0 to 690	PX309-10KGV	PX319-10KGV	PX329-10KGV	PX359-10KGV	
Vacuum an	d Compound	Gage Pressure				
-0 to -15	_	PX309-015VV	PX319-015VV	PX329-015VV	PX359-015VV	
-15 to 0 to +15	_	PX309-015CGV	PX319-015CGV	PX329-015CGV	PX359-015CGV	
-15 to 30	-1.03 to 2.1	PX309-V030GV	PX319-V030GV	PX329-V030GV	PX359-V030GV	
-15 to 50	-1.03 to 3.4	PX309-V050GV	PX319-V050GV	PX329-V050GV	PX359-V050GV	
-15 to 100	-1.03 to 6.9	PX309-V100GV	PX319-V100GV	PX329-V100GV	PX359-V100GV	
-15 to 150	-1.03 to 10.3	PX309-V150GV	PX319-V150GV	PX329-V150GV	PX359-V150GV	

mini DIN

style.

Comes complete with 5-point NIST-traceable calibration.

Notes: 1. Units 100 psig and above may be subjected to vacuum on the pressure port without damage. 2. For alternative performance specifications to suit your application, contact Engineering.

Ordering Examples: PX309-100GV, 100 psi gage pressure transducer with 100 mV output at 5 Vdc excitation and 1.5 m cable termination. PX319-015AV, 15 psi absolute pressure transducer with 100 mV output @ 10 Vdc excitation and mini DIN termination.

PX329-3KGV, 3000 psi gage pressure transducer with 100 mV output @ 5 Vdc excitation and twist-lock 6 pin connector termination. Mating connector sold separately, order **PT06V-10-6S-R**, Consult Sales for OEM pricing.

Haw to Order

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PX309 Series with 0 to 5 Vdc Output

0 to 5 Vdc Output 0-1 to 0-10,000 psi 0-70 mbar to 0-690 bar PX329-015G5V shown smaller than actual size.



PX309 Series



5V Output Specifications

(In Addition to Common Specifications on page 2)
Total Error Band (Includes Linearity, Hyesteresis, Repeatability, Thermal Hysteresis and Thermal Errors, Not Including Zero and Span Setting Accuracy): ±1.0%
(5 psig/psia is ±1.5%, 2 psig is 3.0% and 1 psig is 4.5%)
Supply Voltage: 9 to 30 Vdc, Supply Current < 10 mA

0 to 5 Vdc Outputs					
Range	Output	Excitation*			
5 to 1000 psia	0 to 5 Vdc	9 to 30 Vdc			
1 to 10,000 psig	0 to 5 Vdc	9 to 30 Vdc			
-15 to 30/50/100/ 150 psig	0 to 5 Vdc	9 to 30 Vdc			
0 to -15 psig	0 to 5 Vdc	9 to 30 Vdc			
-15 to 0 to +15 psig	-5 to 0 to +5 Vdc	9 to 30 Vdc			

^{*} Supply Current < 10 mA

Compensated Temperature: -20 to 85°C (≤ 5 psig/psia is 0 to 50°C)

		A THINK			Style.	
To Orde	To Order					
R	ange	4.5 O-bl-	ii DINI	Todat Laula	B#40	
psi	bar	1.5 m Cable Connection	mini DIN Connection	Twist-Lock Connection	M12 Connection	
Absolute P	ressure					
0 to 5	0 to 0.34	PX309-005A5V	PX319-005A5V	PX329-005A5V	PX359-005A5V	
0 to 15	0 to 1	PX309-015A5V	PX319-015A5V	PX329-015A5V	PX359-015A5V	
0 to 30	0 to 2.1	PX309-030A5V	PX319-030A5V	PX329-030A5V	PX359-030A5V	
0 to 50	0 to 3.4	PX309-050A5V	PX319-050A5V	PX329-050A5V	PX359-050A5V	
0 to 100	0 to 6.9	PX309-100A5V	PX319-100A5V	PX329-100A5V	PX359-100A5V	
0 to 200	0 to 14	PX309-200A5V	PX319-200A5V	PX329-200A5V	PX359-200A5V	
0 to 300	0 to 21	PX309-300A5V	PX319-300A5V	PX329-300A5V	PX359-300A5V	
0 to 500	0 to 34	PX309-500A5V	PX319-500A5V	PX329-500A5V	PX359-500A5V	
0 to 1000	0 to 69	PX309-1KA5V	PX319-1KA5V	PX329-1KA5V	PX359-1KA5V	
Gage Press	sure					
0 to 1	0 to 0.07	PX309-001G5V	PX319-001G5V	PX329-001G5V	PX359-001G5V	
0 to 2	0 to 0.14	PX309-002G5V	PX319-002G5V	PX329-002G5V	PX359-002G5V	
0 to 5	0 to 0.34	PX309-005G5V	PX319-005G5V	PX329-005G5V	PX359-005G5V	
0 to 15	0 to 1	PX309-015G5V	PX319-015G5V	PX329-015G5V	PX359-015G5V	
0 to 30	0 to 2.1	PX309-030G5V	PX319-030G5V	PX329-030G5V	PX359-030G5V	
0 to 50	0 to 3.4	PX309-050G5V	PX319-050G5V	PX329-050G5V	PX359-050G5V	
0 to 100	0 to 6.9	PX309-100G5V	PX319-100G5V	PX329-100G5V	PX359-100G5V	
0 to 150	0 to 10	PX309-150G5V	PX319-150G5V	PX329-150G5V	PX359-150G5V	
0 to 200	0 to 14	PX309-200G5V	PX319-200G5V	PX329-200G5V	PX359-200G5V	
0 to 300	0 to 21	PX309-300G5V	PX319-300G5V	PX329-300G5V	PX359-300G5V	
0 to 500	0 to 34	PX309-500G5V	PX319-500G5V	PX329-500G5V	PX359-500G5V	
0 to 1000	0 to 69	PX309-1KG5V	PX319-1KG5V	PX329-1KG5V	PX359-1KG5V	
0 to 2000	0 to 138	PX309-2KG5V	PX319-2KG5V	PX329-2KG5V	PX359-2KG5V	
0 to 3000	0 to 207	PX309-3KG5V	PX319-3KG5V	PX329-3KG5V	PX359-3KG5V	
0 to 5000	0 to 345	PX309-5KG5V	PX319-5KG5V	PX329-5KG5V	PX359-5KG5V	
0 to 7500	0 to 517	PX309-7.5KG5V	PX319-7.5KG5V	PX329-7.5KG5V	PX359-7.5KG5V	
0 to 10,000	0 to 690	PX309-10KG5V	PX319-10KG5V	PX329-10KG5V	PX359-10KG5V	
Vacuum ar	d Compound (Gage Pressure				
0 to -15	<u> </u>	PX309-015V5V	PX319-015V5V	PX329-015V5V	PX359-015V5V	
-15 to 0 to +15		PX309-015CG5V	PX319-015CG5V	PX329-015CG5V	PX359-015CG5V	
-15 to 30	-1.03 to 2.1	PX309-V030G5V	PX319-V030G5V	PX329-V030G5V	PX359-V030G5V	
-15 to 50	-1.03 to 3.4	PX309-V050G5V	PX319-V050G5V	PX329-V050G5V	PX359-V050G5V	
-15 to 100	-1.03 to 6.9	PX309-V100G5V	PX319-V100G5V	PX329-V100G5V	PX359-V100G5V	
-15 to 150	-1.03 to 10.3	PX309-V150G5V	PX319-V150G5V	PX329-V150G5V	PX359-V150G5V	

Comes complete with 5-point NIST-traceable calibration.

*Notes: 1. Units 100 psig and above may be subjected to vacuum on the pressure port without damage. 2. For alternative performance specifications to suit your application, contact Engineering.

Ordering Examples: PX309-100G5V, 100 psi gage pressure transducer with 0 to 5 Vdc output and 1.5 m cable termination.

PX319-015A5V, 15 psi absolute pressure transducer with 0 to 5 Vdc output and mini DIN termination. PX329-3KG5V, 3000 psi gage pressure transducer with 0 to 5 Vdc output and twist-lock 6 pin connector termination. Mating connector sold separately; order PT06V-10-6S-R. Consult Sales for OEM pricing.

Metric Versions of PX309 also available from Omega. Please see PXM309 series.

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PX309 Series with 0 to 10 Vdc Output

0 to 10 Vdc Output 0-1 to 0-10,000 psi 0-70 mbar to 0-690 bar PX329-015G10V shown smaller than actual size.



PX309 Series



10V Output Specifications

(In Addition to Common Specifications on page 2)
Total Error Band (Includes Linearity, Hyesteresis, Repeatability, Thermal Hysteresis and Thermal Errors, Not Including Zero and Span Setting Accuracy): ±1.0% (5 psig/psia is ±1.5%, 2 psig is 3.0% and 1 psig is 4.5%)

Supply Voltage: 9 to 30 Vdc, Supply Current < 10 mA

0 to 10 Vdc Outputs					
Range	Output	Excitation*			
5 to 1000 psia	0 to 10 Vdc	9 to 30 Vdc			
1 to 10,000 psig	0 to 10 Vdc	9 to 30 Vdc			
-15 to 30/50/100/ 150 psig	0 to 10 Vdc	9 to 30 Vdc			
0 to -15 psig	0 to 10 Vdc	9 to 30 Vdc			
-15 to 0 to +15 psig	0 to 5 to +10 Vdc	9 to 30 Vdc			

^{*} Supply Current < 10 mA

Compensated Temperature: -20 to 85°C (≤ 5 psig/psia is 0 to 50°C)

		Jillille			style.	
To Orde	To Order					
Ra	ange	4- 011				
psi	bar	1.5 m Cable Connection	mini DIN Connection	Twist-Lock Connection	M12 Connection	
Absolute Pressure						
0 to 5	0 to 0.34	PX309-005A10V	PX319-005A10V	PX329-005A10V	PX359-005A10V	
0 to 15	0 to 1	PX309-015A10V	PX319-015A10V	PX329-015A10V	PX359-015A10V	
0 to 30	0 to 2.1	PX309-030A10V	PX319-030A10V	PX329-030A10V	PX359-030A10V	
0 to 50	0 to 3.4	PX309-050A10V	PX319-050A10V	PX329-050A10V	PX359-050A10V	
0 to 100	0 to 6.9	PX309-100A10V	PX319-100A10V	PX329-100A10V	PX359-100A10V	
0 to 200	0 to 14	PX309-200A10V	PX319-200A10V	PX329-200A10V	PX359-200A10V	
0 to 300	0 to 21	PX309-300A10V	PX319-300A10V	PX329-300A10V	PX359-300A10V	
0 to 500	0 to 34	PX309-500A10V	PX319-500A10V	PX329-500A10V	PX359-500A10V	
0 to 1000	0 to 69	PX309-1KA10V	PX319-1KA10V	PX329-1KA10V	PX359-1KA10V	
Gage Press	sure					
0 to 1	0 to 0.07	PX309-001G10V	PX319-001G10V	PX329-001G10V	PX359-001G10V	
0 to 2	0 to 0.14	PX309-002G10V	PX319-002G10V	PX329-002G10V	PX359-002G10V	
0 to 5	0 to 0.34	PX309-005G10V	PX319-005G10V	PX329-005G10V	PX359-005G10V	
0 to 15	0 to 1	PX309-015G10V	PX319-015G10V	PX329-015G10V	PX359-015G10V	
0 to 30	0 to 2.1	PX309-030G10V	PX319-030G10V	PX329-030G10V	PX359-030G10V	
0 to 50	0 to 3.4	PX309-050G10V	PX319-050G10V	PX329-050G10V	PX359-050G10V	
0 to 100	0 to 6.9	PX309-100G10V	PX319-100G10V	PX329-100G10V	PX359-100G10V	
0 to 150	0 to 10	PX309-150G10V	PX319-150G10V	PX329-150G10V	PX359-150G10V	
0 to 200	0 to 14	PX309-200G10V	PX319-200G10V	PX329-200G10V	PX359-200G10V	
0 to 300	0 to 21	PX309-300G10V	PX319-300G10V	PX329-300G10V	PX359-300G10V	
0 to 500	0 to 34	PX309-500G10V	PX319-500G10V	PX329-500G10V	PX359-500G10V	
0 to 1000	0 to 69	PX309-1KG10V	PX319-1KG10V	PX329-1KG10V	PX359-1KG10V	
0 to 2000	0 to 138	PX309-2KG10V	PX319-2KG10V	PX329-2KG10V	PX359-2KG10V	
0 to 3000	0 to 207	PX309-3KG10V	PX319-3KG10V	PX329-3KG10V	PX359-3KG10V	
0 to 5000	0 to 345	PX309-5KG10V	PX319-5KG10V	PX329-5KG10V	PX359-5KG10V	
0 to 7500	0 to 517	PX309-7.5KG10V	PX319-7.5KG10V	PX329-7.5KG10V	PX359-7.5KG10V	
0 to 10,000	0 to 690	PX309-10KG10V	PX319-10KG10V	PX329-10KG10V	PX359-10KG10V	
Vacuum an	d Compound (Gage Pressure				
0 to -15	_	PX309-015V10V	PX319-015V10V	PX329-015V10V	PX359-015V10V	
-15 to 0 to +15	_	PX309-015CG10V	PX319-015CG10V	PX329-015CG10V	PX359-015CG10V	
-15 to 30	-1.03 to 2.1	PX309-V030G10V	PX319-V030G10V	PX329-V030G10V	PX359-V030G10V	
-15 to 50	-1.03 to 3.4	PX309-V050G10V	PX319-V050G10V	PX329-V050G10V	PX359-V050G10V	
-15 to 100	-1.03 to 6.9	PX309-V100G10V	PX319-V100G10V	PX329-V100G10V	PX359-V100G10V	
-15 to 150	-1.03 to 10.3	PX309-V150G10V	PX319-V150G10V	PX329-V150G10V	PX359-V150G10V	

Comes complete with 5-point NIST-traceable calibration.

*Notes: 1. Units 100 psig and above may be subjected to vacuum on the pressure port without damage. 2. For alternative performance specifications to suit your application, contact Engineering.

Ordering Examples: PX309-100G10V, 100 psi gage pressure transducer with 0 to 10 Vdc output and 1.5 m cable termination.

PX319-015A10V, 15 psi absolute pressure transducer with 0 to 10 Vdc output and mini DIN termination. **PX329-3KG10V**, 3000 psi gage pressure transducer with 0 to 10 Vdc output and twist-lock 6 pin connector termination. Mating connector sold separately; order **PT06V-10-6S-R**. Consult Sales for OEM pricing.

Metric Versions of PX309 also available from Omega. Please see PXM309 series.

How to Order Rometec srl - www.rometec.it - info@rometec.it - www.rometec.it - info@rometec.it

PX309 Series with 4 to 20 mA Output

4 to 20 mA Output 0-1 to 0-10,000 psi 0-70 mbar to 0-690 bar

PX309-030GI shown smaller than actual size.



PX309 Series



4 to 20 mA Output **Specifications**

(In Addition to Common Specifications on page 2) **Total Error Band (Includes** Linearity, Hyesteresis, Repeatability, Thermal **Hysteresis and Thermal Errors, Not Including Zero** and Span Setting Accuracy): ±1.0% (5 psig/psia is ±1.5%, 2 psig is 3.0% and 1 psig is 4.5%) Supply Voltage: 9 to 30 Vdc

4 to 20 mA Outputs				
Range Output Excitation				
All models (psia, psig)	4 to 20 mA	9 to 30 Vdc		
-15 to 0 to +15 psig	4 to 12 to 20 mA	9 to 30 Vdc		

Compensated Temperature: -20 to 85°C (≤ 5 psig/psia is 0 to 50°C)

Reverse Polarity Protected Over Voltage Protection

			The state of the s				
To Order	To Order						
Ra	nge	1 E m Cabla	mini DIN	Turiet Leek	M12		
psi	bar	1.5 m Cable Connection	Connection	Twist-Lock Connection	Connection		
Absolute Pre	Absolute Pressure						
0 to 5	0 to 0.34	PX309-005AI	PX319-005AI	PX329-005AI	PX359-005AI		
0 to 15	0 to 1	PX309-015AI	PX319-015AI	PX329-015AI	PX359-015AI		
0 to 30	0 to 2.1	PX309-030AI	PX319-030AI	PX329-030AI	PX359-030AI		
0 to 50	0 to 3.4	PX309-050AI	PX319-050AI	PX329-050AI	PX359-050AI		
0 to 100	0 to 6.9	PX309-100AI	PX319-100AI	PX329-100AI	PX359-100AI		
0 to 200	0 to 14	PX309-200AI	PX319-200AI	PX329-200AI	PX359-200AI		
0 to 300	0 to 21	PX309-300AI	PX319-300AI	PX329-300AI	PX359-300AI		
0 to 500	0 to 34	PX309-500AI	PX319-500AI	PX329-500AI	PX359-500AI		
0 to 1000	0 to 69	PX309-1KAI	PX319-1KAI	PX329-1KAI	PX359-1KAI		
Gage Pressu	re						
0 to 1	0 to 0.07	PX309-001GI	PX319-001GI	PX329-001GI	PX359-001GI		
0 to 2	0 to 0.14	PX309-002GI	PX319-002GI	PX329-002GI	PX359-002GI		
0 to 5	0 to 0.34	PX309-005GI	PX319-005GI	PX329-005GI	PX359-005GI		
0 to 15	0 to 1	PX309-015GI	PX319-015GI	PX329-015GI	PX359-015GI		
0 to 30	0 to 2.1	PX309-030GI	PX319-030GI	PX329-030GI	PX359-030GI		
0 to 50	0 to 3.4	PX309-050GI	PX319-050GI	PX329-050GI	PX359-050GI		
0 to 100	0 to 6.9	PX309-100GI	PX319-100GI	PX329-100GI	PX359-100GI		
0 to 150	0 to 10	PX309-150GI	PX319-150GI	PX329-150GI	PX359-150GI		
0 to 200	0 to 14	PX309-200GI	PX319-200GI	PX329-200GI	PX359-200GI		
0 to 300	0 to 21	PX309-300GI	PX319-300GI	PX329-300GI	PX359-300GI		
0 to 500	0 to 34	PX309-500GI	PX319-500GI	PX329-500GI	PX359-500GI		
0 to 1000	0 to 69	PX309-1KGI	PX319-1KGI	PX329-1KGI	PX359-1KGI		
0 to 2000	0 to 138	PX309-2KGI	PX319-2KGI	PX329-2KGI	PX359-2KGI		
0 to 3000	0 to 207	PX309-3KGI	PX319-3KGI	PX329-3KGI	PX359-3KGI		
0 to 5000	0 to 345	PX309-5KGI	PX319-5KGI	PX329-5KGI	PX359-5KGI		
0 to 7500	0 to 517	PX309-7.5KGI	PX319-7.5KGI	PX329-7.5KGI	PX359-7.5KGI		
0 to 10,000	0 to 690	PX309-10KGI	PX319-10KGI	PX329-10KGI	PX359-10KGI		
Vacuum and	Compound Ga	ge Pressure					
0 to -15		PX309-015VI	PX319-015VI	PX329-015VI	PX359-015VI		
-15 to 0 to +15		PX309-015CGI	PX319-015CGI	PX329-015CGI	PX359-015CGI		
-15 to 30	-1.03 to 2.1	PX309-V030GI	PX319-V030GI	PX329-V030GI	PX359-V030GI		
-15 to 50	-1.03 to 3.4	PX309-V050GI	PX319-V050GI	PX329-V050GI	PX359-V050GI		
-15 to 100	-1.03 to 6.9	PX309-V100GI	PX319-V100GI	PX329-V100GI	PX359-V100GI		
-15 to 150	-1.03 to 10.3	PX309-V150GI	PX319-V150GI	PX329-V150GI	PX359-V150GI		

Comes complete with 5-point NIST-traceable calibration.

Notes: 1. Units 100 psig and above may be subjected to vacuum on the pressure port without damage. 2. For alternative performance specifications to suit your application, contact Engineering.

Ordering Examples: PX309-100GI, 100 psi gage pressure transducer with 4 to 20 mA output and 1.5 m cable termination. PX319-015AI, 15 psi absolute pressure transducer with 4 to 20 mA output and mini DIN termination. PX329-3KGI, 3000 psi gage pressure transducer with 4 to 20 mA output and twistlock 6 pin connector termination. Mating connector sold separately; order PT06V-10-6S-R. Consult Sales for OEM pricing.

Metric Versions of PX309 also available from Omega. Please see PXM309 series.

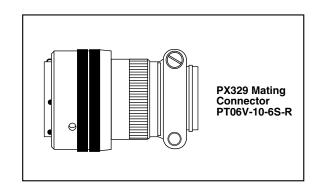
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Accessories



DP8PT, shown smaller than actual size.





Accessories

Model No.	Description		
CAL-3	Recalibration with 5 point NIST traceable documentation		
PT06V-10-6S-R*	Vented mate connector for PX329		
PT06F10-6S-R*	Sealed mate for PX329		
CA-329-4PC24-005	4-conductor mating twist-lock 6 pin connector with 1.5 m (5') cable for PX329		
CX5302	Extra mini DIN connector for PX319		
CA-359-4PC22-2M	2 m (6') vented cable with M12 connector for PX359 for gage ranges ≤500 psi		
CA-359-4PC22-5M	5 m (16') vented cable with M12 connector for PX359 for gage ranges ≤500 psi		
M12C-PVC-4-S-F-5	5 m (16') PVC cable, straight 4-pin M12 female connector one end, flying leads one end, for all PX359 absolute ranges and gage ranges >500 psi		
DP8PT*	4-digit meter for both mV/V and amplified PX3*9 models		
DP25B-S*	4-digit strain meter for mV/V PX3*9 models		
DP25B-E*	4-digit process meter for amplified PX3*9 models		

^{*} See the Installation Notes for cable assemblies.

Note: Complete meter specifications can be found at Omega.



All models shown smaller than actual size.

PX359-100GV

PX329-100GV

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On the PX3*9 Series 0 to 5 Vdc output, do not short the Output(+) to Excitation(+) as permanent damage to the electronics will occur.



Installation Notes

PX309 Series

All PX309 (gage and absolute) use a vented cable. Gage PX309 sensors up to 500 PSIG must be terminated in a clean dry area that is open to atmosphere for correct operation. All other sensors (> 500 psig and all psia ranges) must be terminated in a dry area but do not need to be vented to atmosphere. These cables should be sealed (e.g. RTV) to protect the sensor from moisture getting in to the sensor through the cable.

PX319 Series

All PX319 are vented through a hole in the connector and through the mating connector. A vented cable must be used for low pressure gage sensors up to 500 PSIG and must be terminated in a clean dry area that is open to atmosphere for correct operation. The gasket for the DIN mating connector has a special stiffener (included) between the mating surfaces and is used to maintain the IP65 rating (Spare Gaskets are Part number P002612). Search cable assembly CA-319 with a "WP" on the end for gage pressure under 500 psi. All other PX319 sensors can use standard cable without the "WP" but must be terminated in a dry location or sealed to prevent water from getting into the cable/sensor.

PX329 Series

All PX329 are vented through Pin F of the twist-lock connector. Gage PX329 up to 500 PSIG must be vented for correct operation and must use the connector PT06V-10-6S-R which has no socket on pin F. Cables for these sensors must use a vented cable, be sealed at the back of the mating connector and be terminated in a dry clean area open to the atmosphere. Search cable assembly CA-329 with "WP" for gage pressure under 500 psi. All other PX329 can use the standard PT06F10-6S-R connector or cables (See cable assembly CA-329 without "WP" ending).

PX359 Series

All PX359 are vented through a hole in the connector. Gage PX359 up to 500 psig suggested vented for correct operation and must use the either the CA-359-4PC22-2M or CA-359-4PC22-5M or similar cable. They also must be terminated in a clean dry area open to the atmosphere. All other PX359 can use a standard M12 mating cable like the M12C-PVC-4-S-F-5.

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PRESSURE TRANSDUCER 168°C (335°F) FOR HYDRAULIC APPLICATIONS

mV/V Output 0-20 to 2500 psi 0-1.4 to 0-170 bar

1 bar = 14.5 psi1 kg/cm² = 14.22 psi 1 atmosphere = 14.7 psi = 29.93 inHg = 760.2 mmHg = 1.014 bar

PX32 Series



High Compensated Temperature Range -40 to 168°C (-40 to 335°F)

- ✓ All Stainless Steel Construction
- Available in Vented Gage, Sealed Gage, and Absolute Pressure Models

OMEGA's PX32 is a rugged, hightemperature transducer. Its all stainless steel construction and high-temperature operating range make it ideal for measuring hydraulic pressure on industrial and off-road equipment or in industrial applications in which high temperatures are encountered. The PX32 is available in gage, absolute, or sealed models. An environmentally sealed, twist-lock connector is standard.

SPECIFICATIONS

Excitation: 10V AC/DC (15V maximum)

Output: 3 mV/V ±2%

Input Resistance: 360 Ω minimum Output Resistance: 350 $\pm 5~\Omega$ Zero Balance: ±2% FSO

Accuracy: 0.25% linearity, hysteresis

and repeatability combined Operating Temp Range: -54 to 168°C (-65 to 335°F) **Compensated Temp Range:** -40 to 168°C (-40 to 335°F) Dimensions: 73.1 L x 32 mm Dia

(2.9 x 1.25") overall

Thermal Effects: Span: 0.008% rdg/°F **Zero:** 0.008% FSO/°F

Proof Pressure: 200% of rated pressure **Burst Pressure:**

300% of rated pressure

Wetted Parts: 17-4 PH stainless steel Pressure Port: 1/8-27 NPT internal

Electrical Connection: PTIH-10-6P (or equal) **Mating Connector:**

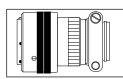
PT06F10-6S (sold separately)

Metric thread adaptors available, visit us online.



WIRING

A = +EXCВ = +OUT C = -OUTD = -EXC



Mating Connector PT06F10-6S

To Order				
RANGE		MODEL NO.	COMPATIBLE METERS*	
ABSOLUTE PR	ESSURE (All R	anges Available in	Absolute Pressure)	
0 to 25 psi	0 to 1.7 bar	PX32B1-025AV	DP41-S, DP25B-S	
0 to 30 psi	0 to 2.1 bar	PX32B1-030AV	DP41-S, DP25B-S	
0 to 50 psi	0 to 3.4 bar	PX32B1-050AV	DP41-S, DP25B-S	
0 to 100 psi	0 to 6.9 bar	PX32B1-100AV	DP41-S, DP25B-S	
GAGE PRESSU	RE (All Ranges	s Also Available in	Sealed Gage Pressure)	
0 to 20 psi	0 to 1.4 bar	PX32B1-020GV	DP41-S, DP25B-S	
0 to 30 psi	0 to 2.1 bar	PX32B1-030GV	DP41-S, DP25B-S	
0 to 50 psi	0 to 3.4 bar	PX32B1-050GV	DP41-S, DP25B-S	
0 to 100 psi	0 to 6.9 bar	PX32B1-100GV	DP41-S, DP25B-S	
0 to 250 psi	0 to 17.2 bar	PX32B1-250GV	DP41-S, DP25B-S	
0 to 300 psi	0 to 20.7 bar	PX32B1-300GV	DP41-S, DP25B-S	
0 to 500 psi	0 to 34.5 bar	PX32B1-500GV	DP41-S, DP25B-S	
0 to 1000 psi	0 to 68.9 bar	PX32B1-1KGV	DP41-S, DP25B-S	
0 to 1200 psi	0 to 82.7 bar	PX32B1-1.2KGV	DP41-S, DP25B-S	
0 to 2500 psi	0 to 172 bar	PX32B1-2.5KGV	DP41-S, DP25B-S	

ACCESSORY

MODEL NO.	DESCRIPTION
PT06F10-6S	Mating connector for PX32 series transducers
CA-6TE24-5-015	Cable assembly with twist-lock connector

Comes complete with 5-point calibration.

* Visit us online for compatible meters.

Metric ranges available - Consult Engineering.

To order absolute pressure models, replace "G" in model number with "A" and add cost. To order sealed gage models, replace "G" in model number with "S", no extra charge.

Ordering Examples: PX32B1-300GV, 300 psi gage transducer.

PX32B1-1.2KGV, 1200 psi gage pressure transducer. PX32B1-025AV, 25 psi absolute pressure transducer.

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PRESSURE TRANSDUCER STANDARD AND METRIC MODELS

mV/V Output 0-15 to 0-30,000 psi-Standard Units 0-1 to 0-400 bar-Metric Models

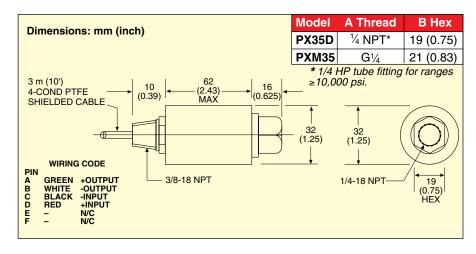
1 bar = 14.5 psi 1 kg/cm² = 14.22 psi 1 atmosphere = 14.7 psi = 29.93 inHg = 760.2 mmHg = 1.014 bar

STANDARD PX35D0-1KGV shown actual size. METRIC PXM35MD1-016BARGV shown actual size.

PX35/PXM35 Series



- All Stainless Steel Construction
- 5-Point Calibration Standard
- Available in Gage, Sealed Gage, and Absolute Pressure Models



The OMEGA PX35/PXM35 are high-accuracy, millivolt output, industrial pressure transducers. They can be ordered with a hermetically sealed gage, making them suitable for the harshest environments. Both units are available in gage, sealed gage, and absolute models. Three meters (10') of 4-conductor shielded cable is standard. A twist-lock 6 pin connector electrical termination is also available.

SPECIFICATIONS

Excitation: 10 Vdc (15 V maximum)

Output: 3 mV/V nominal

Accuracy: 0.25% linearity, hysteresis

and repeatability combined
Zero Balance: ±2.0% FSO
Input Resistance: 350 Ω minimum

Output Resistance: 315 to 530 Ω Operating Temp Range: -73 to 149°C (-100 to 300°F)

Compensated Temp Range: 16 to 71°C (60 to 160°F)

Thermal Effects:

Span: 0.0054% rdg/°C Zero: 0.008% FSO/°C Proof Pressure:

150% of rated pressure

Burst Pressure: 300% of rated pressure

Wetted Parts: 17-4 PH stainless steel Pressure Port: See dimensional

drawing above

Electrical Connection:

3 m (10') 4-conductor cable standard, or

PTIH-10-6P

TEMPERATURE COMPENSATION PRESSURE TRANSDUCER

STANDARD CUSTOM CONFIGURATIONS

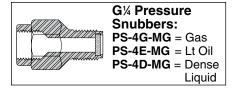
PX35 PRESSURE ELECTRICAL FOR SERIES PORT CONNECTION [1] [2]	RANGE (PSI) [3]	[4]	OUTPUT [5]	OPTIONS [6]
C = ½-18 NPT-M cost D = ½-18 NPT-F no charge J = ½6-20 UNF-M cost K = ½6-20 UNF-F no charge S = ½ HP tube fitting as shown (ranges ≥ 10,000 psi) 0 = 3 m (10') cable (std) add cost per (ft) over 3 m (10')	10 15 20 25 30 50 75 100 250 250 300 500 750 1K	B √ × × × × × × × × × × × × × × × × × ×	" = mV/V tase price PX35D 1000 psi 1000 psi * %e-18, ¼" HP tube	OX = Cleaned for oxygen service + cost plus 2 weeks
1 = PT1H-10-6P connector (or equal, no charge). Mating connector (sold separately), order PT06F10-6S	1K 2K 2.5K 3K 3.5K 5K 7.5K 10K*	, ୨୦୦୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭୭	 Select a pres Select electrical Select a pres 	cal connection sure range ure units – absolute gage
Visit us online for additional options including extended compensated temperatures.	15K* 20K* 30K*	A, G, S A, G, S A, G, S	Select outputSelect option	

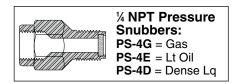
Ordering Examples: PX35K1-300GV, 300 psi gage pressure transducer with $\frac{7}{16}$ -20 UNF female connection and PTIH-10-6P connector, **PT06F10-6S,** mating connector (sold separately).

PX35S1-15KGV, 15,000 psi gage pressure transducer with %16-18, 1/4" HP tube connection and PTIH-10-6P connector.

PT06F10-6S, mating connector (sold separately)

CA-4TE24-2-015, cable assembly with twist-lock 6 pin connector (sold separately).





METRIC CUSTOM CONFIGURATIONS

PXM35 PRESSURE CONNECTION [1] [2] MB = G1/4B Female no charge MD = G1/4B Female no charge 0 = 3 m (10') cable (std) add cost per/m over	RANGE (BAR) [3] 1.0 1.6 2.5 4.0 6.0 10	UNITS [4] 9 9 9 9 9 9 9 9 9	OUTPUT [5] V = mV/V Base price PXM38 <100 bar ≥100 bar	OPTIONS [6] OX = Cleaned for oxygen service + cost plus 2 weeks
3 m (10') 1 = PTIH-10-6P connector (or equal, no charge). Mating connector (sold separately), order PT06F10-6S Visit us online for additional options including extended compensated temperatures.	10 16 25 40 60 100 160 250 400	५ ,५,५,५,५,५,५,५,५,५,५,५,५,५,५,५,५,५,५,	 Select a pr Select elect Select a pr 	trical connection essure range ssure units – absolute, gage age out ons

Ordering Examples: PXM35MB0-010BARSV, 10 bar sealed gage pressure transducer with $G\frac{1}{8}$ B female connection and 3 m (10') cable termination.

PXM35MD1-010BARAV, 10 bar absolute pressure transducer with $G^{1}/_{4}B$ female connection and twist-lock 6 pin connector. **PT06F10-6S**, mating connector (sold separately).

PREMIUM TEMPERATURE COMPENSATED PRESSURE TRANSDUCER



STANDARD MODELS

To Order				
RAN	GE	MODEL NO.	COMPATIBLE METERS*	
ABSOLUTE PRES	SURE (All Range	s Available in Abso	olute Pressure)	
0 to 30 psia	0 to 2.1 bar	PX35D0-030AV	DP41-S, DP25B-S	
0 to 50 psia	0 to 3.4 bar	PX35D0-050AV	DP41-S, DP25B-S	
0 to 100 psia	0 to 6.9 bar	PX35D0-100AV	DP41-S, DP25B-S	
0 to 150 psia	0 to 10.3 bar	PX35D0-150AV	DP41-S, DP25B-S	
GAGE PRESSURE	(All Ranges Als	o Available in Seale	ed Gage Pressure)	
0 to 20 psi	0 to 1.4 bar	PX35D0-020GV	DP41-S, DP25B-S	
0 to 30 psi	0 to 2.1 bar	PX35D0-030GV	DP41-S, DP25B-S	
0 to 50 psi	0 to 3.4 bar	PX35D0-050GV	DP41-S, DP25B-S	
0 to 100 psi	0 to 6.9 bar	PX35D0-100GV	DP41-S, DP25B-S	
0 to 200 psi	0 to 13.8 bar	PX35D0-200GV	DP41-S, DP25B-S	
0 to 300 psi	0 to 20.7 bar	PX35D0-300GV	DP41-S, DP25B-S	
0 to 500 psi	0 to 34.5 bar	PX35D0-500GV	DP41-S, DP25B-S	
0 to 1000 psi	0 to 68.9 bar	PX35D0-1KGV	DP41-S, DP25B-S	
0 to 2000 psi	0 to 138 bar	PX35D0-2KGV	DP41-S, DP25B-S	
0 to 3000 psi	0 to 207 bar	PX35D0-3KGV	DP41-S, DP25B-S	
0 to 5000 psi	0 to 345 bar	PX35D0-5KGV	DP41-S, DP25B-S	
0 to 10,000** psi	0 to 689 bar	PX35S0-10KGV	DP41-S, DP25B-S	
0 to 15,000** psi	0 to 1034 bar	PX35S0-15KGV	DP41-S, DP25B-S***	
0 to 20,000** psi	0 to 1379 bar	PX35S0-20KGV	DP41-S, DP25B-S***	
0 to 30,000** psi	0 to 2069 bar	PX35S0-30KGV	DP41-S, DP25B-S*	

Comes complete with 5-point calibration.

To order sealed gage pressure models, replace "**G**" in model number with "**S**" (no extra charge). To order absolute pressure models, replace "**G**" in model number with "**A**" (no extra charge). Ordering Example: PX35D0-3KSV, 3000 psi sealed gage pressure transducer.

METRIC MODELS

To Order					
Models with G	Models with G 1/4 Female Pressure Connection, Integral Connector & mV/V Output				
RANGE		MODEL NO.	COMPATIBLE METERS*		
0 to 1 bar	0 to 15 psi	PXM35MD1-001BARGV	DP41-S, DP25B-S		
0 to 1.60 bar	0 to 23 psi	PXM35MD1-1.60BARGV	DP41-S, DP25B-S		
0 to 2.50 bar	0 to 36 psi	PXM35MD1-2.50BARGV	DP41-S, DP25B-S		
0 to 4 bar	0 to 58 psi	PXM35MD1-004BARGV	DP41-S, DP25B-S		
0 to 6 bar	0 to 87 psi	PXM35MD1-006BARGV	DP41-S, DP25B-S		
0 to 10 bar	0 to 145 psi	PXM35MD1-010BARGV	DP41-S, DP25B-S		
0 to 16 bar	0 to 232 psi	PXM35MD1-016BARGV	DP41-S, DP25B-S		
0 to 25 bar	0 to 363 psi	PXM35MD1-025BARGV	DP41-S, DP25B-S		
0 to 40 bar	0 to 580 psi	PXM35MD1-040BARGV	DP41-S, DP25B-S		
0 to 60 bar	0 to 870 psi	PXM35MD1-060BARGV	DP41-S, DP25B-S		
0 to 100 bar	0 to 1450 psi	PXM35MD1-100BARGV	DP41-S, DP25B-S		
0 to 160 bar	0 to 2321 psi	PXM35MD1-160BARGV	DP41-S, DP25B-S		
0 to 250 bar	0 to 3626 psi	PXM35MD1-250BARGV	DP41-S, DP25B-S		
0 to 400 bar	0 to 5802 psi	PXM35MD1-400BARGV	DP41-S, DP25B-S		

Comes complete with 5-point calibration. * Visit us online for compatible meters.

To order sealed gage pressure models, replace "**G**" in model number with "**S**" (no extra charge). To order absolute pressure models replace "**G**" in model number with "**A**" (no extra charge).

Ordering Examples: PXM35MD1-010BARSV, 10 bar sealed gage pressure transducer. PXM35MD1-001BARAV. 1 har absolute (relative) pressure transducer



PXM35D0-200AV shown actual size.

^{*} Visit us online for compatible meters. ** 9/16-18, 1/4" HP tube fitting.

^{*** 4-}digit meter; counts in increments of 10.

PRESSURE TRANSDUCERS



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WITH HIGH TEMP. PERFORMANCE FOR INDUSTRY, AUTOMOTIVE, TEST, AND AEROSPACE APPLICATIONS

mV/V, 0 to 5 Vdc, 0 to 10 Vdc, 4 to 20 mA Outputs

Low Pressure: 10 inH₂0 and Standard Ranges: 5 to 5000 psi Metric Ranges: 25 mbar to 345 bars Gage, Absolute, Compound, Barometric,

Vacuum Pressure

PX409 Series



High Accuracy ±0.08% BSL Includes Linearity, Hysteresis, and Repeatability

✓ Broad Temperature Compensated Range -29 to 85°C (-20 to 185°F)

✓ Premium Temperature Performance Span: ±0.5% Over Compensated Range

✓ 5-Point NIST Traceable Calibration Included

Digital Dynamic Thermal Compensation Across Temperature and Pressure Range

✓ Low Pressure Ranges from 10 inH₂O

✓ All Stainless Steel Wetted Parts

✓ Fast Response Time

✓ Solid State Reliability and Stability

Gage , Absolute, Compound, Barometric, Vacuum Pressures

✓ 300% Proof Pressure Minimum

OMEGA piezoresistive pressure transducers have a proven record in high performance commercial and aerospace applications for over 25 years. The piezoresistive process uses strain gages molecularly embedded into a highly stable silicon wafer. The silicon wafer is diced into individual die which each contain a full strain gage bridge. The die is mounted in a sealed chamber protected from the environment by glass to metal seals and a stainless steel diaphragm.

A small volume of silicone oil transfers the pressure from the diaphragm to the strain bridge. The construction provides a very rugged transducer with exceptional accuracy, stability and thermal effects. A unique design ruggedizes the transducers by providing secondary fluid containment in the event of a diaphragm rupture.

At our state-of-the-art facilities, automated test equipment performs pressure and temperature cycling on 100% of the PX409 transducers. The transducers are then calibrated using extremely high accuracy equipment and a 5-point NIST traceable calibration certificate that is included with each transducer. To obtain their high accuracy and stability, the PX409 Series use state-of-the-art digital mapping of the temperature, pressure and output performance of the silicon sensor in conjunction with a custom ASIC to provide dynamic thermal compensation across the

All models shown actual size.

PX409-050GV, features cable termination.

PX419-100GI, features mini-DIN termination.

PX429-015GI, features twist-lock termination.

Stock Belivery for most Ranges!

PX409 SERIES SILICON WAFER TECHNOLOGY PX409 Series uses a highly stable silicon wafer which is micro-machined to precision tolerances and then has strain gages molecularly embedded into it. Strain gage shown magnified 500%

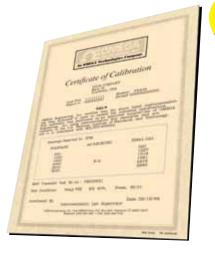
Strain gages shown larger than actual size.

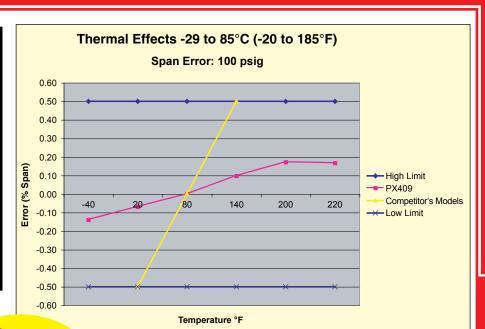
temperature and pressure parameters. The inherent stability of the piezoresistive core provides excellent long term stability, repeatability and very low thermal effects at the price of much lower performance transducers. Standard features of the PX409 Series also include protective features built into the electronics and the pressure element. Reverse polarity, EMC, and power supply fluctuation protection are standard on all models. Intrinsically Safe and CSA ratings are optional.

The most popular ranges and configurations are stocked for immediate delivery. All others typically have a very short lead-time.

EXCEPTIONAL PERFORMANCE 0.08% STATIC ACCURACY **Micro-Machined Silicon**

5-Point NIST Traceable **Calibration Certificate**





RUGGEDIZED DESIG For Aerospace, Automotive, Test and **Industrial Applications**

Custom Configurations Available!

Designed to be quickly customized to meet your exacting specifications, often with fast delivery. Custom variables are available including custom fittings, accuracies, ranges, calibrations, pressure units, thermal specifications, vibration, operating temperature and compensated range. Contact OMEGA Pressure Engineering for more details.

Common Specifications

Approvals: RoHS compliant **Minimum Isolation Between Case** and Output Terminations:

100M Ω @ 50 Vdc

Pressure Cycles: 1 million, minimum Long Term Stability (1-Year): ±0.1% FS typical

Shock: 50 g, 11 mS half sine, vertical

and horizontal axis

Vibration: 5-2000-5 Hz, 30 minute cycle, Curve L, Mil-Spec 810 figure 514-2-2, vertical and horizontal axis Bandwidth: DC to 1 kHz typical

Response Time: <1 mS

CE Compliant:

Emissions: IEC550022 Class B **Electrostatic Discharge Immunity:**

IFC61000-4-2

EM Field Immunity: IEC61000-4-3 EFT Immunity: IEC61000-4-4 Surge Immunity: IEC61000-4-5

Conducted RF: IEC610000-4-6 **Rate Power Frequency Magnetic** Field: IEC61000-4-8

Electrical Termination:

PX409: Integral 2 m (6') cable PX409C: Integral 2 m (6') cable with ½ NPT conduit fitting

PX419: mini-DIN PX429: Twist lock PX459: M12 Connector

Environmental Protection:

PX409: IP67 PX409C: IP67 PX419: IP65 PX429: IP65 PX459: IP65

Mating Connectors: PX419: CX5302

PX429: PT06F10-6S

OUTPUT SPECIFICATIONS

mV/V

Output: 10 mV/V (100 mV @ 10 Vdc)

(Ratiometric 5 to 10 Vdc)

Supply Voltage: 10 Vdc (5 mA @ 10 Vdc)

Input/Output Resistance: 5000 Ω

±20% typical

Amplified Voltage Output 0 to 5 Vdc Supply Voltage: 10 to 30 Vdc@10 mA
0 to 10 Vdc Supply Voltage:

15 to 30 Vdc@10 mA 4 to 20 mA

Output: 4 to 20 mA Supply Voltage: 9 to 30 Vdc maximum loop res $\Omega = (Vs-9)x50$ [9 to 20 Vdc above 105°C (229°F)]

Secondary Containment Gage/Diff/Vac/Compound:

10 inH₂O to 5 psi: To 1000 psi **15 to 1000 psi:** To 3000 psi **1500 to 5000 psi:** To 10,000 psi

Absolute/Barometric:

5 to 1000 psi: To 6000 psia **1500 to 5000 psi:** To 10,000 psia

Wetted Parts: 316 SS

Pressure Port: 1/4-18 NPT male Weight: 115 to 200 gm (4 to 7 oz) denending upon configuration

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HIGH PEKPUKIVIANGE PKESSUKE I KANSUUGEKS PIEZORESISTIVE DESIGN WITH HIGH TEMPERATURE PERFORMANCE

Accuracy (Combined Linearity, Hysteresis and Repeatability): +0.08% BSI maximum

Zero Balance: ±0.5% FS typical 1% max (1% typical, 2% maximum

for 2.5 psi and below)

Span Setting: ±0.5% FS typical 1% maximum (1% typical, 2% maximum for 2.5 psi and below) Calibrated in vertical direction with fitting down

Thermal Effects Zero (Over Compensated Range):

Ranges >5 psi: ±0.5% span Ranges ≤5 psi: ±1.0% span

Thermal Effects Span

(Over Compensated Range): Ranges >5 psi: ±0.5% span

Ranges ≤5 psi: ±1.0% span

Power Requirements:

Millivolt: 5 to 10 Vdc (2 mA @ 10 Vdc)

Amplified Voltage: 5 to 10 Vdc

(2 mA @ 10 Vdc)

Current Loop: 9 to 30 Vdc [max loop res = [(Vs-9) x 50]]9 to 20 Vdc above 105°C (229°F)] **CE Compliant:** Meets industrial

emission and immunity standard

EN61326

FOR GAGE, ABSOLUTE AND COMPOUND PRESSURE:

Gauge and Absolute Range: Low Pressure: 10 inH2O

Standard Ranges: 5 to 5000 psi Metric Ranges: 25 mbar to 345 bars

Compound Range:

±10 inH2O to ±15 psi (±25 to ±1034

mbar)

Overpressure Gage Pressure:

10 inH2O:10 times span 1 psi: 6 times span

2.5 to 1000 psi: 4 times span

1500 to 5000 psi: 7250 psi maximum

Overpressure Absolute Pressure:

5 psia: 6 times span

2.5 psia to 1000 psia: 4 times span 1500 to 5000 psia: 10,000 psi

maximum

Operating Temperature Range: -45 to 121°C (-49 to 250°F)

Compensated Temperature: Ranges >5 psi: -29 to 85°C (-20

to 185°F)

Ranges ≤**5 psi:**-17 to 85°C (0 to

185°F)

Burst Pressure:

10 inH2O to 15 psi: 1000 psi

FOR BAROMETRIC PRESSURE:

Omega's PX409 series electronic barometers features all Stainless steel construction, which makes them ideal for harsh industrial environments. Their high operating temperature, broad compensated range, and excellent temperature compensation allow stable readings in applications with fluctuating temperatures commonly found where barometric pressure must be monitored.

Ranges:

0 to 32, 16 to 32 or 26 to 32 inHg 0 to 1100, 550 to 1100, 880 to 1100 hPa

Output:

Millivolt: 10 mV/V (100 mV @ 10 Vdc) Amplified Voltage: 0 to 5 Vdc or 0 to

10 Vdc@ 10 Vdc)

Current Loop: 4 to 20 mA

Operating Temperature Range:

-45 to 121°C (-49 to 250°F) [-45 to 115°C (-49 to 240°F) for voltage or current outputs]

Compensated Temperature:

Ranges: 0 to 32 inHg -29 to 85°C (-20 to 185°F)

Ranges: 16 to 32, 26 to 32 inHg

-18 to 85°C (0 to 185°F)

Proof Pressure: 400% of spaninHg **Burst Pressure:** 1000 psia

FOR VACUUM PRESSURE:

OMEGA's PX490 Series high accuracy uni-directional Vacuum range (negative gage pressure) models have all stainless steel wetted parts and welded construction and premium temperature compensation which makes them suitable for use in tough industrial environments. Vacuum models measure negative gage pressure with increasing output for increasing negative pressure.

Ranges:

-10 inH2O to -15 psi 0 to -70 mbar, 0 to 1 bar, 0 to 350 bar

Operating Temperature Range:

-45 to 121°C (-49 to 250°F) [-45 to 115°C (-49 to 240°F) for voltage or current outputs]

Compensated Temperature:

Ranges > 5 psi: -29 to 85°C (-20 to

185°F)

Ranges \leq 5 psi: -17 to 85°C (0 to

185°F)

Proof Pressure (positive

direction):

10 inH2O: 10 times full scale1 psi: 6 times full scale2.5 psi and Higher: 4 times full scale (Negative direction 4 times or 1 atmosphere whichever is

greater)scale

Burst Pressure:

10 inH2O to 15 psi: 1000 psi

OPTION DESCRIPT	TONS		
Electrical Termination	PX409 for 3 m Cable		
	PX419 for mini-DIN		
	PX429 for Twist-lock (mating connector sold separately)		
	PX459 for M12 Connector (mating connector sold separately)		
Range	10W for Imperial Pressure 0 to 10 in H2O		
(Examples of range per unit per type. Please View All	001 for Imperial Pressure 0 to 1 psi		
Models for all available	030 for Imperial Pressure 0 to 30 psi		
ranges per pressure type.	750 for Imperial Pressure 0 to 750 psi		
Explore Configurator for Custom Ranges)	1.0K for Imperial Pressure 0 to 1000 psi		
Cuotom Hanges)	32B for Imperial Barometric (Absolute Pressure) 0 to 32 inHg		
	025H for Metric Pressure 0 to 25 mbar		
	001B for Metric Pressure 0 to 1 bar		
	350B for Metric Pressure 0 to 350 bar		
	16H for Metric Barometric (Absolute Pressure) 550 to 1100 mBar		
	1,100H for Metric Barometric (Absolute Pressure) 0 to 1100 hPa		
Pressure Type	G for Gage		
	A for Absolute		
	B for Barometric		
	V for Vacuume		
	CG for Compund		
Output Signal	V for 10mV/V		
	5V for 0 to 5 V Output		
	10V for 0 to 10 V Output		

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PX429-015GI, shown smaller than actual size.

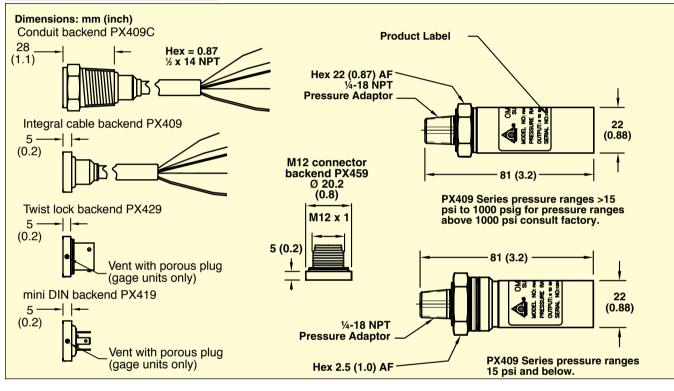
PX409-100GI, shown smaller than actual size.

PX409 and PX409C CABLE CONNECTION				
COLOR mV 5/10V mA				
Black	– EXC	Common	- Supply	
White	+ SIG	+ Output	NC	
Green	- SIG	NC	NC	
Red	+ EXC	+ EXC	+ Supply	

PX419-	100GI	l, show	n
smaller	than	actual	size.

PX419 and PX459 PIN OUT					
PIN	N mV 5/10V mA				
1	+ EXC	+ EXC	+ Supply		
2	- EXC	Common	- Supply		
3	+ SIG	+ Output	NC		
4	- SIG	NC	NC		

PX429 TWIST LOCK PINOUT				
PIN	mV	5/10V	mA	
Α	+EXC	+ EXC	+ Supply	
В	– EXC	Common	- Supply	
С	+SIG	+ Output	NC	
D	- SIG	NC	NC	
E	NC	NC	NC	
F	NC	NC	NC	



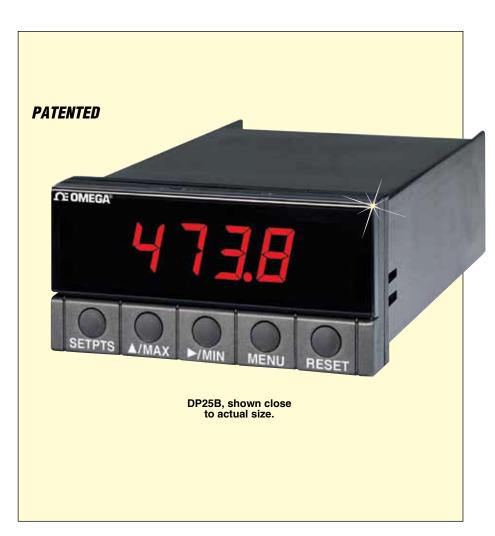
METERS	METERS		
MODEL NO.	DESCRIPTION		
DP41-S	6-digit high accuracy (0.005%) strain meter for use with mV/V output models		
DP41-E	6-digit high accuracy (0.005%) process meter for use with voltage and current output models		
DP41-B	6-digit high accuracy (0.005%) universal meter for use with voltage and current output models also accepts thermocouple and RTD inputs		
DP25B-S	4-digit precision strain meter for use with mV/V output models		
DP25B-E	4-digit precision process meter for use with voltage and current output models		
ACCESSORIES			
CX5302	Extra mini-DIN connector for PX419 Series		
MIL-26482-I 10-6P	Mating twist lock connector for PX429 Series		
PS-4G	Pressure snubber for air/gaseous media		
PS-4E	Pressure snubber for water or light oils		
PS-4D	Pressure snubber for dense liquids (motor oil)		
M12C-PVC-4-S-F-5 PVC cable, straight 4-pin M12 female connector one end, flying leads one end, 5m (16.4') long, fits, PX459			
M12C-PVC-4-R-F-5 PVC cable, right angled 4-pin M12 female connector one end, flying leads one end, 5m (16.4') long fits PX459			
-MB	Mounting bracket, factory installed		

4-Digit Precision Meter

DP25B



- ✓ mV, V, mA, Strain Gage Inputs
- ✓ Full Process Unit Scaling
- **✓** Built-In Transducer Power



Process and Strain Models

Because they accept a wide range of DC voltage and current inputs, the DP25-B-E strain meters can handle most process and strain applications. Features include easy front-panel scaling to virtually any engineering units, a remote tare function for weighing applications, and a hardware lockout to prevent unauthorized changes in setup. In addition, the DP25B-E meters feature built-in excitation in 4 user-selectable voltages, which makes them compatible with most transducers and transmitters.

To Order	
MODEL NO	DESCRIPTION
DP25B-E	Voltage/current input with excitation
DP25B-S	mV input in excitation

Comes complete with operator's manual.

Ordering Examples: DP25B-E, voltage/current input meter for use with 0 to 5 V, 0 to 10 V, 4 to 20 mA output PX409 Series transducers. DP25B-S, mV input meter for use with mV/V output PX409 Series transducers.

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TRANSDUCERS DESIGNED FOR THE HARSHEST ENVIRONMENTS

100 mV 0 to 5 Vdc. O to 10 Vdc, 4 to 20 mA Output 0-100 to 0-5000 psi Sealed Gage 6.9 to 345 bar

PX409 Series Sealed Gage



The hermetically sealed gage version of the PX409 Series features all welded Stainless Steel construction, 316L wetted parts and glass to metal seals (GMS) at the electrical outlets with either twist lock connector (PX429) or solder pins (PX449) terminations. This ensures that the unit is hermetically sealed from external environments and the media. Designed for use on automotive and aircraft test platforms and anywhere environmental concerns demand the most durable characteristics. The sealed gage models have the PX409 Series micro machined silicon core that provides high accuracy, low drift and excellent long term stability in the harshest environments.



PX429-3.5KSGV

F	PX429 TWIST LOCK PINOUT				
PIN	mV	5/10V	mA		
Α	+ EXC	+ EXC	+ Supply		
В	– EXC	Common	- Supply		
С	+ SIG	+ Output	NC		
D	- SIG	NC	NC		
Е	NC	NC	NC		
F	NC	NC	NC		



PX449-250SGV

PX449 GLASS-METAL SEAL PINOUT			
PIN*	mV	5/10V	mA
1	+ EXC	+ EXC	+ Supply
2	– EXC	– EXC	- Supply
3	+ SIG	+ Output	NC
4	– SIG	NC	NC
5	NC	NC	NC
6	NC	NC	NC

^{*} Pin # reference starts with 1st of 4 longer height pins in clockwise direction.



Glass-to-metal seal solder pins.

> PX449-250SGV shown actual size.

mV/V Output/Supply **Specifications**

Output: mV/V, 100 mV @ 10 Vdc (ratiometric 5 to 10 Vdc) Supply Voltage: 10 Vdc

General Specifications: **Amplified Output /Supply** Specifications

0 to 5 Vdc: 10 to 30 Vdc@10 mA 0 to 10 Vdc: 15 to 30 Vdc@10 mA 4 to 20 mA Output/Supply

Specifications Output: 4 to 20 mA Supply Voltage: 9 to 30 Vdc max loop res $\Omega = (Vs-9)x50$ [9 to 20 Vdc above 105°C (229°F)]

Input/Output Resistance: 5000Ω

±20% typical

Accuracy (Combined Linearity, Hysteresis and Repeatability): ±0.08% BSL max

Zero Balance: ±0.5% FS typical 1% max (1% typical, 2% max for 1 psi and below)

Span Setting: ±0.5% FS typical 1% max (1% typical, 2% max for 1 psi and below); calibrated in vertical direction with fitting down

Shock: 50 g, 11 mS half sine, vertical

and horizontal axis

Output Signal

Vibration: 5-2000-5 Hz, 30 minute cycle, Curve L, Mil-Spec 810 figure 514-2-2, vertical and horizontal axis

Ordering Options Description

Metric thread adaptors available.

PX429-3.5KSGV shown actual size.

Operating Temperature Range For mV/V Output: -45 to 121°C (-49 to 250°F) Operating Temperature Range For Amplified and 4 to 20 mA Output: -45 to 115°C (-49 to 240°F)
Compensated Temperature:

Ranges >5 psi: -29 to 85°C (-20 to 185°F)

Ranges ≤ 5 psi: -17 to 85°C (0 to 185°F)

Thermal Effects Zero (Over Compensated Range): Ranges >5 psi: ±0.5% span Ranges ≤ 5 psi: ±1.0% span Thermal Effects Span (Over Compensated Range):

Ranges >5 psi: ±0.5% span Ranges ≤ 5 psi: ±1.0% span

Electrical Termination	PX429 for Twist-Lock Termination (MIL-26482-I 10-6P)			
Liectrical Termination	PX449 for Hermetic Pin Termination			
Range	100 for 0 to 100 psi			
(Examples of range per unit	500 for 0 to 500 psi			
per type. Please View All Models for all available	750 for Imperial Pressure 0 to 750 psi			
ranges per pressure type.	1.0K for 0 to 1,000 psi			
Explore Configurator for Custom Ranges)	3.5K for 0 to 3,500 psi			
Custom hanges)	5.0K for 0 to 5,000 psi			
Pressure Type	SG for Sealed Gage Pressure Ranges 0 to 5,000 psi			

-5V for Amplified 0 to 5 Vdc Output -10V for Amplified 0 to 10 Vdc Output Comes complete with 5-point NIST traceable calibration. Visit us online for compatible meters. Ordering Examples: PX449-250SGV, 10 mV/V output, 250 psi sealed gage pressure range, glass to metal sealed pin termination.

V for Ratiometric 10 mV/V Output

-I for 4 to 20 mA Output

PX449-250SG5V, 0 to 5 Vdc output, 250 psi sealed gage pressure range, glass to metal sealed pin termination.

PX449-250SGI, 4 to 20 mA output, 250 psi sealed gage pressure range, glass to metal sealed pin termination.

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PRESSURE TRANSDUCER CONNECT DIRECTLY TO YOUR COMPUTER





- ✓ 1000 Readings/Second
- Micro-Machined Silicon Sensor
- ✓ 316L SS Wetted Parts
- ✓ High ±0.08% BSL Accuracy
- Excellent Long Term Stability
- ✓ USB 2.0 and Below Compatible
- Standard USB Connector Termination
- Shock and Vibration Rated
- Ruggedized with Secondary Containment

The PX409 and PXM409 High Speed USBH Series connects directly to your computer. Free PC software enables you to chart, log, display, and output data for analysis. Also included are .NET APIs, and a command set for command-line access. The micro-machined silicon design is ideal for pressure or level applications in laboratory, test platforms, or bio/pharmaceutical applications as well as industrial applications that require a rugged, high accuracy transducer. The micro-machined silicon sensor provides a very stable transducer with exceptional high accuracy of $\pm 0.08\%$ and a broad compensated range of -29 to 85°C (-20 to 185°F). The modular construction allows for fast delivery of most configurations and fittings. Delivery is typically stock to 1 week!

SPECIFICATIONS

Accuracy: 0.08% BSL (linearity, hysteresis

and repeatability combined)

Resolution: Up to 5.5 significant figures

Temperature Compensation (Over Compensated Range):

Span: Range > 5 psi: ±0.5% Range ≤ 5 psi: ±1.0% Zero: Range > 5 psi: ±0.5% Range ≤ 5 psi: ±1.0% Minimum Isolation:

100 M Ω @ 50 Vdc case to sensor

2 MΩ @ 50 Vdc case to output terminations Pressure Cycles: 1 million, minimum

Long Term Stability (1-Year): ±0.1% full scale typical

A to D Conversion: 24-bit

Shock: 50 g, 11 mS half sine, vertical and horizontal axis

Vibration: 5-2000-5 Hz, 30 minute cycle, Curve L, Mil-Spec 810 figure 514-2-2,

vertical and horizontal axis

Bandwidth: DC to 1000 updates per second typical (±3%)

FREE OMEGA® USBH Downloadable Software!

OMEGA is excited to announce the release of a major software update for USB Transducers! The fresh look and added features add even more value and flexibility to your transducer's performance.
Free OMEGA PC software takes the data from the

transducer directly to the digital domain, turning your laptop or Windows® tablet (with USB connection) into a virtual meter, chart recorder, or data logger.

Also included are .NET APIs and a set for command-line access. Visit

https://www.omega.com/en-us/sensors-and-sensing-eq uipment/pressure-and-strain/pressure-transducers/p/P X409-Series to download your free copy.

*Includes software to run TRH Central compatible devices.

Metric threads and

ranges available.

Power Consumption: 0.35 W typical CE Compliant: Meets industrial

emissions and immunity EN61326 **Environmental Protection: IP65**

Secondary Containment Gage/Vacuum/Compound Pressure:

10 inH2O to 5 psi: to 1000 psi **15 to 1000 psi:** to 3000 psi **1500 to 5000 psi:** to 10,000 psi 25 to 350 mb: to 70 bar

1 to 70 bar: to 200 bar 100 to 350 bar: to 700 bar Absolute/Barometric Pressure:

5 to 1000 psia: to 6000 psia **1500 to 5000 psia:** to 10,000 psia 350 mb to 70 bar: to 400 bar 100 to 350 bar: to 700 bar

Zero Balance:

Ranges > 170 mB: $\pm 0.5\%$ typ. (1% max) Ranges ≤170 mB: ±1% typ. (2% max)

Span Setting:

Ranges > 170 mB: ±0.5% typ. (1% max) Ranges ≤170 mB: ±1% typ. (2% max)

Overpressure

Gage/Vacuum/Compound Pressure:

10 inH₂O: 10 times span 1 psi: 6 times span **2.5 psi to 1000 psi:** 4 times span **1500 psi to 5000 psi:** 7250 psi maximum

Absolute/Barometric Pressure:

5 psia: 6 times span

15 psia to 1000 psia: 4 times span 1500 to 5000 psia: 7250 psia maximum 350 mb to 100 bar absolute: 4 times span 175 to 350 bar absolute: 500 bar maximum

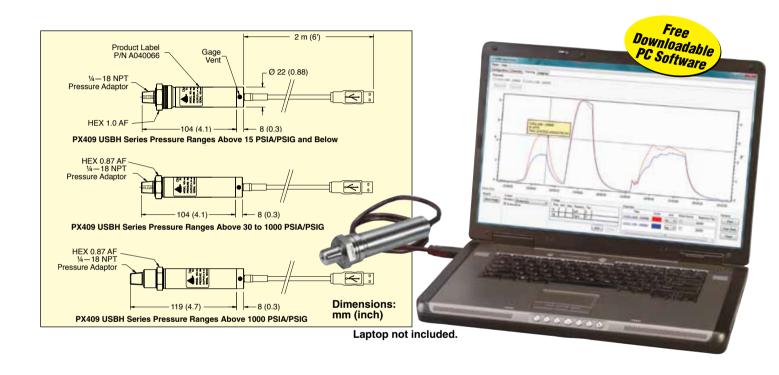
Wetted Parts: 316L stainless steel

Weight: 200 g (7 oz)

Operating Temperature Range: -40 to 85°C (-40 to 185°F)

Compensated Temperature:

Ranges >5 psi (350 mb): -29 to 85°C (-20 to 185°F) Ranges ≤ 5 psi (350 mb): -17 to 85°C (0 to 185°F)



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PRESSURE TRANSDUCERS

SPECIFICATIONS DIFFERENTIAL MODELS

Ranges: Unidirectional 10 in H₂O to

1000 psi

Line/Static Pressure: 500 psi maximum applied to both sides simultaneously

High Side Containment Pressure (Differential)

Wet/Dry and Wet/Wet:

10 inH2O to 5 psi: to 1000 psi 15 to 1000 psi: to 3000 psi

Overpressure (Differential) Wet/Dry and Wet/Wet:

10 inH₂O: 3.6 psi

1 psi: to 6 psi 2.5 psi to 750 psi: 4 times span

1000 psi: to 3000 psi Weight: 227 g (8 oz)

Line Pressure: 500 psi maximum

Fitting: 1/4-18 NPT male



See PX409 for dimensions.

OPTION DESCRIPTIONS PX459 for Imperial Unit PXM459 for Metric 10W for Imperial Pressure 0 to 10 in H2O Range (Examples of range per unit 001 for Imperial Pressure 0 to 1 psi per type. Please View All 030 for Imperial Pressure 0 to 30 psi Models for all available 750 for Imperial Pressure 0 to 750 psi ranges per pressure type. Explore Configurator for 1.0K for Imperial Pressure 0 to 1000 psi Custom Ranges) 16B for Imperial Barometric 16 to 32 inHg 32B for Metric Pressure 0 to 32 inHg 001B for Metric Pressure 0 to 1 bar 350B for Metric Pressure 0 to 350 bar 350H for Metric Compund Guage -350 to 350 mbar 880H for Metric Barometric 880 to 1,100 mbar **Pressure Type** G for Gage A for Absolute (15 to 5000 psia) B for Barometric Pressure V for Vacuume (Negatice Guage) CG for Compund Guage (10W to 15 psi only) **DWU** for Wet/Wet Unidirectional Differential WDU for Wet/Dry Unidirectional Differential

Comes complete with 5-point NIST traceable calibration certificate, cable with USB connector, and free downloadable PC software.

Ordering Examples: PX409-100DDUUSBH, Wet/Dry 0 to 100 psi differential high speed USB output transducer.

USBH for High Speed USB

PX409-2.5DWUUSBH, Wet/Wet 0 to 2.5 psi differential high speed USB output transducer. PX409-100GUSBH, 2 m (6') cable with USB termination, 100 psig range, USB output. PX409-16BUSBH, 2 m (6') cable with USB termination, 16 to 32 inHg absolute barometric range, USB output.

Output Signal

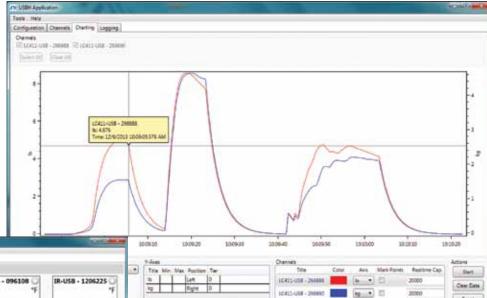
OMEGA USBH MAJOR SOFTWARE UPDATE

OMEGA is excited to announce the release of a major software update for USB Transducers! The fresh look and added features add even more value and flexibility to your transducer's performance. Free OMEGA PC software takes the data from the transducer directly to the digital domain, turning your laptop or Windows® tablet (with USB connection) into a virtual meter, chart recorder, or data logger. Also included are .NET APIs and a set for command-line access.

Visit https://www.omega.com/en-us/sensors-and-sensing-equipment/pressure-and-strain/pressure-transducers/p/PX4 09-Series to download your free copy.*

* Includes software to run TRH Central compatible devices.

Charting Window – The addition of a charting window allows you to see your data graphed in real time. The Y axis is configurable to allow simultaneous graphing of multiple engineering units. You can output the image of your data to a png file.



PX409-USB - 407512 UTC-USB - 09061701 TJ-USB - 096108 psi G 23 72 0.0000 67 mmHg A bar G 733.3 29.00 0.627 0.966 -8071 0.507 Line: High-Lose High 6560 0561 Love Hight 29.96 29.00 LC411H-USB - 266890 (psi A psi G psi A 14.095 14.219 0.496 -1.12014200 14228 DOM: 1995 -0276 2258 Lev: High -1142 -0498 PX409-USBH - 425451 H-USB - N12060101 09-USBH - 854821 C 7X409-USB - 123458 psi G psi G torr G %RH -0.00819 0.0000 0.1240

Channels Window – Display data from all of your sensors simultaneously. Each channel has configurable user alarms, three data filters, tare, resettable low/high indication, and sample rates ranging from 30 minutes to 1000 Hz.

Logging Window – A new xls filetype output option presents preformatted data for readability. In addition, Live Statistics are displayed, including the sensor information, the start/stop time, the number of samples taken, the current reading, and the High/Low readings. With the logging window, you can capture your data for later analysis.

PX409-USBH-425117
Units psi
Count 10
Last 14.2349
Low 14.2349
High 14.2353

Support for Omega Pressure, Force, Temperature, and Humidity USB Transducers One software package supports:

PX409-*-USB, PX409-*-USBH, LC411-*-USBH, TJ-USB, IR-USB, RH-USB and UTC-USB transducers.













James

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Pressure Transmitter Digital RS485 with Analog Output

Imperial and Metric

Gage and Absolute Pressures 10 inH₂0 to 5000 psi (25 mb to 345 bar) **Vacuum and Compound Ranges** 10 inH₂0 to 15 psi (25 mb to 1 bar) **Barometric Pressure Ranges** 0 to 32, 16 to 32, and 26 to 32 inHg (0 to 1100 hPa, 550 to 1100 hPa, and 880 to 1100 hPa)



PX409-485/PXM409-485 Series



- ✓ Up to 640 Readings/Second
- ✓ Micro-Machined Silicon Sensor
- ✓ 316L SS Wetted Parts
- ✓ High ±0.08% BSL Accuracy
- ✓ RS485 and Analog Outputs
- Excellent Long Term Stability
- **✓** M12 Connection
- Ruggedized with Secondary Containment

The PX409 RS485 Series is an industrial RS485 silicon pressure sensor. Use as a stand-alone for up to 640 Hz sampling rate, or connect up to 16 units in an independent multidrop RS485 network at 1 Hz overall bus sampling rate. Interface to the sensor using command line access, or use the free PC software from OMEGA to chart, log, display, and output data for analysis. An additional analog output (0 to 5V, or 4 to 20 mA) provides even more flexibility. The micro-machined silicon design is ideal for pressure or level applications in laboratory, test platforms, or bio/pharmaceutical applications as well as industrial applications that require a rugged, high accuracy transmitter that can transmit over long distances. The micro-machined silicon sensor provides a very stable transmitter with exceptional high accuracy of ±0.08% and a broad compensated range of -29 to 85°C (-20 to 185°F). The modular construction allows for fast delivery of most configurations and fittings.

FREE OMEGA® Downloadable Software!

Free OMEGA PC software takes the data from the transmitter directly to the digital domain, turning your laptop or Windows® tablet into a virtual meter, chart recorder, or data logger. Also included are .NET APIs and a command set for command-line access. Visit https://www.omega.com/en-us/sensors-and-sensi ng-equipment/pressure-and-strain/pressure-trans ducers/p/PX409-Series to download your free copy.

Note: RS485 to PC interface is required, sold separately

Specifications

Supply: 12 to 36 Vdc (when using mA output, derate using formula in operating temperature section)

Maximum Loop Ω : (Supply-9) x 50

Accuracy: 0.08% BSL (linearity, hysteresis and repeatability

combined)

Resolution: Up to 5.5 significant figures

Zero Balance: ±0.5% FS typical 1% maximum (1% typical,

2% maximum for 2.5 psi and below)

Span Setting: ±0.5% FS typical 1% maximum (1% typical, 2% maximum for 2.5 psi and below). Calibrated in vertical direction with fitting down

Temperature Compensation (Over Compensated Range):

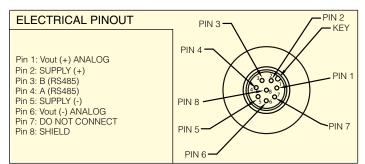
Span: Range > 5 psi: ±0.5%; Range ≤ 5 psi: ±1.0% **Zero:** Range > 5 psi: $\pm 0.5\%$; Range ≤ 5 psi: $\pm 1.0\%$

Minimum Isolation: 100 M Ω @ 50 Vdc case to sensor, 2 M Ω

@ 50 Vdc case to output terminations Pressure Cycles: 1 million, minimum

Long Term Stability (1-Year): ±0.1% full scale typical

Power Consumption: -5V: 0.65 W typical -I: 1.25 W maximum



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Secondary Containment

Gage/Vacuum/Compound Pressure:

10 inH₂O to 5 psi: to 1000 psi 15 to 1000 psi: to 3000 psi 1500 to 5000 psi: to 10,000 psi

Absolute/Barometric Pressure: 5 to 1000 psia: to 6000 psia

Overpressure

Gage/Vacuum/Compound Pressure:

1500 to 5000 psia: to 10,000 psia

10 inH₂O: 10 times span 1 psi: 6 times span

2.5 psi to 1000 psi: 4 times span **1500 psi to 5000 psi:** 7250 psi maximum

Absolute/Barometric Pressure:

5 psia: 6 times span

15 psia to 1000 psia: 4 times span **1500 to 5000 psia:** 7250 psia maximum

Secondary Containment

Gage/Vacuum/Compound Pressure:

25 to 350 mb: to 70 bar 1 to 70 bar: to 200 bar 100 to 350 bar: to 700 bar Absolute/Barometric Pressure: 350 mb to 70 bar: to 400 bar 100 to 350 bar: to 700 bar

Overpressure

Gage/Vacuum/Compound Pressure:

25 mb: 10 times span 70 mb: 6 times span

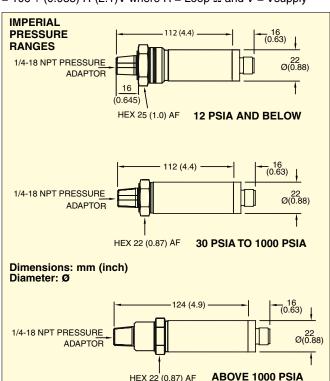
170 mb to 100 bar: 4 times span 175 to 350 bar: 500 bar maximum Absolute/Barometric Pressure:

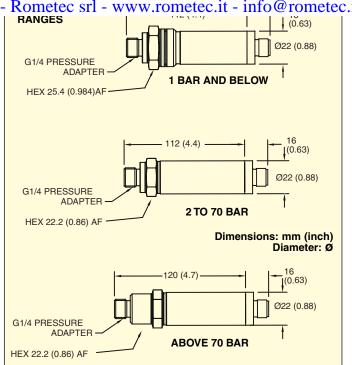
350 mb to 100 bar Absolute: 4 times span 175 to 350 bar Absolute: 500 bar maximum

Wetted Parts: 316L stainless steel

Weight: 200 g (7 oz)

Operating Temperature Range: -40 to 85°C (-40 to 185°F); when using mA output; maximum ambient temperature = 106 + (0.038) R-(2.1)V where R = Loop Ω and V = Vsupply





Compensated Temperature

Imperial:

METRIC

Ranges >5 psi: -29 to 85°C (-20 to 185°F) Ranges ≤5 psi: -17 to 85°C (0 to 185°F)

Metric:

Ranges > 350 mb: -29 to 85°C (-20 to 185°F) Ranges ≤ 350 mb: -17 to 85°C (0 to 185°F)

Pressure Port:

Imperial: ¼-18 NPT male Metric: G-¼ male A to D Conversion: 24-bit

Output: RS485 digital with discrete analog

(choose 0 to 5 Vdc or 4 to 20 mA) **DAC Conversion:** 320 Hz at 16 bit

Bandwidth:

Multidrop Mode: Overall Bus rate: DC to 1 update per

second typical

Standalone Mode: DC to 640 updates per second Electrical Termination: 8-pin M12 type A male with shield pin connection (IEC61076-2-101); female M12 connector M12.8-S-F-FM with screw terminals sold separately

CE Compliant: Meets industrial EN61326

Emissions, Burst and Surge

Susceptibility (10 V/m): ±0.25% max, all outputs, Tested using 6.1 m (20') shielded 6 conductor cable ESD Protection: Tested to 4 kV to case and shielded wire

Digital Outputs: Protection device rated to ±13 kV **Analog Output:** Protection device rated to:

Contact: ±8 kV min, ±30 kV max Air: ±15 kV min, ±30 kV max

For Stated EMC Performance: Use recommended cable, tie drain wire to shield connection on PX409-485 side, and to earth ground on supply side. Ground PX409-485 case

Environmental Protection: IP65

RS485 (Non-Isolated):

Protocol: OMEGA command structure (provided)

Unit Load: 1/8

Standalone and Addressed Multidrop Modes Recommended Cable: Belden 9843 or equivalent Maximum Number of Units on One RS485 Bus: 16 units (multidrop mode), 1 unit (standalone mode) Software-enabled 120Ω termination resistor



OPTION DESCRIPTIONS			
Electrical Termination	PX459 for Imperial for M12 Connector		
Liectrical Termination	PXM459 for Metric for M12 Connector		
Range	10W for Imperial Pressure 0 to 10 in H2O		
(Examples of range per unit per type. Please View All	001 for Imperial Pressure 0 to 1 psi		
Models for all available	030 for Imperial Pressure 0 to 30 psi		
ranges per pressure type.	750 for Imperial Pressure 0 to 750 psi		
Explore Configurator for Custom Ranges)	1.0K for Imperial Pressure 0 to 1000 psi		
Custom Hanges)	32B for Imperial Barometric (Absolute Pressure) 0 to 32 inHg		
	025H for Metric Pressure 0 to 25 mbar		
	001B for Metric Pressure 0 to 1 bar		
	350B for Metric Pressure 0 to 350 bar		
	16H for Metric Barometric (Absolute Pressure) 550 to 1100 mBar		
	1,100H for Metric Barometric (Absolute Pressure) 0 to 1100 hPa		
Pressure Type	G for Gage Pressure Ranges 10W to 5.0K or 025H to 350B		
	A for Absolute Pressure Ranges 005 to 5.0K or 350H to 350B		
	B for Barometric Pressure Ranges 32B/16B26B or 32H/16H26H		
V for Vacuume Pressure Ranges 015 to 10W or 001B to 025H			
CG for Compund Guage Pressure Ranges 015 to 10W or 001B to 025H SG for Sealed Gage Pressure Ranges 100 to 5.0K or 007 to 350B			
Output Signal	485-5V for RS485 with 0 to 5 Vdc Output		
	485-I for RS485 with 4 to 20 mA Output		

Accessories		
Model No.	Description	
M12.8-S-F-FM	The M12 connectors can be attached to existing sensor or extension cables with a 6 to 8 mm cable diameter in the field by means of screw type connections	
CN7-485-USB-1	Mini-node communication signal converter converts RS485 to USB	BCI

Comes complete with 5-point NIST-traceable calibration and free downloadable software.

Ordering Examples: PXM459-010BG485-5V, 10 bar gage transducer with RS485 and 0 to 5 Vdc outputs, M12 electrical connection, and G-¼ male pressure port.

Mating connector M12.8-S-F-FM (sold separately).

PXM459-350HA485-I, 350 mbar absolute pressure transducer with RS485 and 4 to 20 mA outputs, M12 electrical connection, and G-¼ male pressure port.

Comes complete with 5-point NIST-traceable calibration and free downloadable software.

Ordering Examples: PX459-100G485-5V, 100 psi gage transducer with RS485 and 0 to 5 Vdc outputs, M12 electrical connection, and ½–18 NPT male pressure port.

Mating connector M12.8-S-F-FM (sold separately).

PX459-5.0KA485-I, 5000 psi absolute pressure transducer with RS485 and 4 to 20 mA outputs, M12 electrical connection, and 1/4-18 NPT male pressure port.

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Fast

Delivery!

PRESSURE TRANSDUCER CONNECT DIRECTLY TO YOUR COMPUTER

1000 Updates/per Second

PX409-015GUSBH

shown actual size.

Gage and Absolute Pressures 10 inH₂O to 5000 psi (25 mb to 345 bar) **Vacuum and Compound Ranges** 10 inH₂0 to 15 psi **Barometric and Differential Pressure Ranges**

PX409-USBH Series



- ✓ 1000 Readings/Second
- Micro-Machined Silicon Sensor
- ✓ 316L SS Wetted Parts
- ✓ High ±0.08% BSL Accuracy
- Excellent Long Term Stability
- ✓ USB 2.0 and Below Compatible
- Standard USB Connector Termination
- Shock and Vibration Rated
- Ruggedized with Secondary Containment

The PX409 High Speed USBH Series connects directly to your computer. Free PC software enables you to chart, log, display, and output data for analysis. Also included are .NET APIs, and a command set for command-line access. The micro-machined silicon design is ideal for pressure or level applications in laboratory, test platforms, or bio/pharmaceutical applications as well as industrial applications that require a rugged, high accuracy transducer. The micro-machined silicon sensor provides a very stable transducer with exceptional high accuracy of ±0.08% and a broad compensated range of -29 to 85°C (-20 to 185°F). The modular construction allows for fast delivery of most configurations and fittings. Delivery is typically stock to 1 week!

SPECIFICATIONS

Accuracy: 0.08% BSL (linearity, hysteresis

and repeatability combined)

Resolution: Up to 5.5 significant figures

Temperature Compensation (Over Compensated Range):

Span: Range > 5 psi: $\pm 0.5\%$ Range ≤ 5 psi: ±1.0% Zero: Range > 5 psi: ±0.5% **Range** ≤ 5 psi: ±1.0% Minimum Isolation:

100 M Ω @ 50 Vdc case to sensor

2 MΩ @ 50 Vdc case to output terminations Pressure Cycles: 1 million, minimum

Long Term Stability (1-Year): ±0.1% full scale typical

A to D Conversion: 24-bit

Shock: 50 g, 11 mS half sine, vertical and horizontal axis

Vibration: 5-2000-5 Hz, 30 minute cycle, Curve L, Mil-Spec 810 figure 514-2-2,

vertical and horizontal axis

Bandwidth: DC to 1000 updates per second typical (±3%)

2 m (6') integral USB cable connects directly to your PC.

FREE OMEGA® USBH Downloadable Software!

OMEGA is excited to announce the release of a major software update for USB Transducers! The fresh look and added features add even more value and flexibility to your transducer's performance.

Free OMEGA PC software takes the data from the transducer directly to the digital domain, turning your laptop or Windows® tablet (with USB connection) into a virtual meter, chart recorder, or data logger.

Also included are .NET APIs and a set for command-line access. Visit ftp://ftp.omega.com/public/DASGroup/ products/USBH/ to download your free copy.*

*Includes software to run TRH Central compatible devices.

Metric threads and

ranges available.

Power Consumption: 0.35 W typical **CE Compliant:** Meets industrial emissions and immunity EN61326

Environmental Protection: IP65

Secondary Containment Gage/Vacuum/Compound Pressure:

10 inH2O to 5 psi: to 1000 psi **15 to 1000 psi:** to 3000 psi **1500 to 5000 psi:** to 10,000 psi

Absolute/Barometric Pressure:

5 to 1000 psia: to 6000 psia **1500 to 5000 psia:** to 10,000 psia

Overpressure

Gage/Vacuum/Compound Pressure:

10 inH₂O: 10 times span psi: 6 times span

2.5 psi to 1000 psi: 4 times span **1500 psi to 5000 psi:** 7250 psi maximum

Absolute/Barometric Pressure:

5 psia: 6 times span

15 psia to 1000 psia: 4 times span **1500 to 5000 psia:** 7250 psia maximum

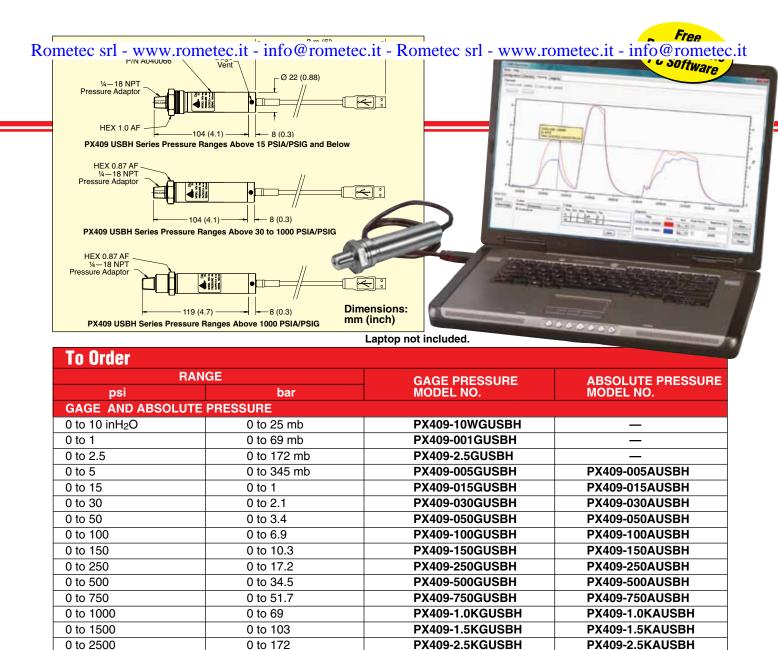
Wetted Parts: 316L stainless steel

Weight: 200 g (7 oz)

Operating Temperature Range: -40 to 85°C (-40 to 185°F)

Compensated Temperature:

Ranges >5 psi: -29 to 85°C (-20 to 185°F)



0 10 0000	0 10 0 10	1 A-100 CICICAGODII	1 A TOO GIGHTAGODII	
VACUUM RANGES (NEGATIVE GAGE PRESSURE)				
0 to -10 inH ₂ O	0 to -25 mb	PX409-10WVUSBH	_	
0 to -1 psi	0 to -69 mb	PX409-001VUSBH	_	
0 to -2.5 psi	0 to -172 mb	PX409-2.5VUSBH	-	
0 to -5 psi	0 to -345 mb	PX409-005VUSBH	_	
0 to -15 psi	0 to -1	PX409-015VUSBH	-	
COMPOUND GAGE RA	NGES			
± 10 inH ₂ O	± 25 mb	PX409-10WCGUSBH	-	
± 1 psi	± 69 mb	PX409-001CGUSBH	_	
± 2.5 psi	± 172 mb	PX409-2.5CGUSBH	_	
± 5 psi	± 345 mb	PX409-005CGUSBH	_	
± 15 psi	± 1	PX409-015CGUSBH	_	
BAROMETRIC RANGES (ABSOLUTE PRESSURE)				
0 to 32 inHg	0 to 1100 mb	<u> </u>	PX409-32BUSBH	
16 to 32 inHg	550 to 1100 mb	_	PX409-16BUSBH	
26 to 32 inHg	880 to 1100 mb	_	PX409-26BUSBH	

PX409-3.5KGUSBH

PX409-5.0KGUSBH

PX409-3.5KAUSBH

PX409-5.0KAUSBH

Comes complete with 5-point NIST traceable calibration certificate, cable with USB connector, and free downloadable PC software.

Ordering Examples: PX409-100GUSBH, 2 m (6') cable with USB termination, 100 psig range, USB output.

0 to 241

0 to 345

0 to 3500

0 to 5000

PX409-16BUSBH, 2 m (6') cable with USB termination, 16 to 32 inHg absolute barometric range, USB output.

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PRESSURE TRANSDUCERS

SPECIFICATIONS DIFFERENTIAL MODELS

Ranges: Unidirectional 10 inH2O to

1000 psi

Line/Static Pressure: 500 psi maximum applied to both sides simultaneously

High Side Containment Pressure (Differential)

Wet/Dry and Wet/Wet:

10 inH2O to 5 psi: to 1000 psi 15 to 1000 psi: to 3000 psi

Overpressure (Differential) Wet/Dry and Wet/Wet:

10 inH₂O: 3.6 psi

1 psi: to 6 psi 2.5 psi to 750 psi: 4 times span

1000 psi: to 3000 psi Weight: 227 g (8 oz)

Line Pressure: 500 psi maximum

Fitting: 1/4-18 NPT male



To Order		
RAN	GE	
psi	bar	MODEL NO.
WET/DRY DIFFERENTIAL	PRESSURE MODELS	
0 to 10 inH ₂ O	0 to 25.00 mb	PX409-10WDDUUSBH
0 to 1	0 to 69.00 mb	PX409-001DDUUSBH
0 to 2.5	0 to 172.0 mb	PX409-2.5DDUUSBH
0 to 5	0 to 345.0 mb	PX409-005DDUUSBH
0 to 15	0 to 1.000	PX409-015DDUUSBH
0 to 30	0 to 2.100	PX409-030DDUUSBH
0 to 50	0 to 3.400	PX409-050DDUUSBH
0 to 100	0 to 6.900	PX409-100DDUUSBH
0 to 150	0 to 10.30	PX409-150DDUUSBH
0 to 250	0 to 17.20	PX409-250DDUUSBH
0 to 500	0 to 34.50	PX409-500DDUUSBH
0 to 750	0 to 51.70	PX409-750DDUUSBH
0 to 1000	0 to 69.00	PX409-1.0KDDUUSBH
WET/WET DIFFERENTIAL	PRESSURE MODELS	
0 to 10 inH ₂ O	0 to 25.00 mb	PX409-10WDWUUSBH
0 to 1	0 to 69.00 mb	PX409-001DWUUSBH
0 to 2.5	0 to 172.0 mb	PX409-2.5DWUUSBH
0 to 5	0 to 345.0 mb	PX409-005DWUUSBH
0 to 15	0 to 1.000	PX409-015DWUUSBH
0 to 30	0 to 2.100	PX409-030DWUUSBH
0 to 50	0 to 3.400	PX409-050DWUUSBH
0 to 100	0 to 6.900	PX409-100DWUUSBH
0 to 150	0 to 10.30	PX409-150DWUUSBH
0 to 250	0 to 17.20	PX409-250DWUUSBH
0 to 500	0 to 34.50	PX409-500DWUUSBH
0 to 750	0 to 51.70	PX409-750DWUUSBH
0 to 1000	0 to 69.00	PX409-1.0KDWUUSBH

Comes complete with 5-point NIST traceable calibration certificate, cable with USB connector, and free downloadable PC software.

Ordering Examples: PX409-100DDUUSBH, Wet/Dry 0 to 100 psi differential high speed USB output transducer.

PX409-2.5DWUUSBH, Wet/Wet 0 to 2.5 psi differential high speed USB output transducer.

Clear Data

OMEGA USBH MAJOR SOFTWARE UPDATE

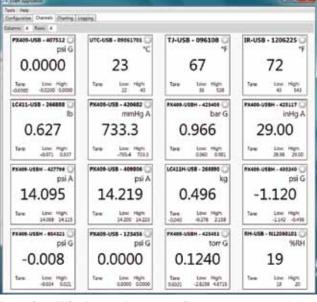
OMEGA is excited to announce the release of a major software update for USB Transducers! The fresh look and added features add even more value and flexibility to your transducer's performance. Free OMEGA PC software takes the data from the transducer directly to the digital domain, turning your laptop or Windows® tablet (with USB connection) into a virtual meter, chart recorder, or data logger. Also included are .NET APIs and a set for command-line access.

Visit ftp://ftp.omega.com/public/DASGroup/products/USBH/ to download your free copy.*

* Includes software to run TRH Central compatible devices.

Charting Window – The addition of a charting window allows you to see your data graphed in real time. The Y axis is configurable to allow simultaneous graphing of multiple engineering units. You can output the image of your data to a png file.





Channels Window – Display data from all of your sensors simultaneously. Each channel has configurable user alarms, three data filters, tare, resettable low/high indication, and sample rates ranging from 30 minutes to 1000 Hz.

Add

Logging Window – A new xls filetype output option presents preformatted data for readability. In addition, Live Statistics are displayed, including the sensor information, the start/stop time, the number of samples taken, the current reading, and the High/Low readings. With the logging window, you can capture your data for later analysis.

PX409-USBH-425117
Units psi
Count 10
Last 14.2349
Low 14.2349
High 14.2353

Support for Omega Pressure, Force, Temperature, and Humidity USB Transducers One software package supports:

PX409-*-USB, PX409-*-USBH, LC411-*-USBH, TJ-USB, IR-USB, RH-USB and UTC-USB transducers.













MICRO_MACHINED Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it SILICON TRANSDUCERS WET/WET DIFFERENTIAL PRESSURE MODELS

mV/V, 0 to 5 or 0 to 10 Vdc, or 4 to 20 mA Outputs **Uni-Directional Ranges** 0-10 inH₂0 to 0-1000 psid

PX409 Series









Precision Micro-Machined Silicon Core

- ✓ 5-Point NIST Traceable Calibration
- **✓** High Stability, Low Drift
- Welded Stainless Steel Construction
- 316L SS Wetted Parts
- Digital Dynamic Thermal **Compensation Across Temperature** and Pressure Range
- ✓ Premium Temperature Performance
- ✓ Broad Compensated Temperature Range
- ✓ Durable, 1 Million Cycle Life
- Ruggedized with Secondary Containment
- Customized Specifications Available

Get all the great performance characteristics of the Micro-Machined Silicon Transducers in these wet/ wet differential pressure models. These rugged stainless steel transducers are ideal for tough industrial automotive, or aerospace applications requiring a wet/ wet transducer. They can be used in test benches, filter monitoring, hydraulic, flow, or water/wastewater applications, as well as factory or pneumatic air, pitot tubes, air speed and other industrial or aerospace applications. The solid state silicon core and all stainless steel wetted parts will provide long, reliable service life with excellent long term stability. To obtain their high accuracy and stability, the PX409 Series use state of the art digital mapping of the temperature, pressure and output performance of the silicon sensor in conjunction with a custom ASIC to provide dynamic thermal compensation across the temperature and pressure parameters.

COMMON SPECIFICATIONS

Accuracy: 0.08% BSL linearity, hysteresis and repeatability combined

Minimum Resistance Between Transducer Body

and Any Wire: $100 \text{ M}\Omega$ **Operating Temperature:**

mV/V and 5 to 10 Vdc Output: -45 to 121°C (-49 to 250°F)

mA Output: -45 to 115°C (-49 to 239°F) **Compensated Temperature Range:**

10 inH₂O to 5 psi: -17 to 85°C (1 to 185°F) **15 to 1000 psi:** -29 to 85°C (-20 to 185°F) Thermal Accuracy: Zero % Shift over compensated temperature range

10 inH₂O to 5 psi: ±1.00% ±1.00% 15 to 1000 psi: ±0.50% ±0.50%

PX409-015DWUV, 15 psid range, 10 mV/V output, shown smaller than actual size. 4-20 mA

> **Metric threads** available, visit us online

IP65 environmental rating.



PX459, M12 connector.

Five Electrical Termination Styles



PX409, 2 m (6') cable.



PX419. mini DIN.



PX409C. conduit cable.



PX429, twist-lock.

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Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it - SILICON TRANSDUCERS **WET/WET DIFFERENTIAL PRESSURE MODELS**

Pressure Cycles: 1 million minimum Long Term Stability (1-Year):

±0.1% FS typical

Bandwidth: DC to 1 kHz typical

Response Time: <1 ms

CE Compliant: Meets EN61326-1: 2006

for industrial locations

Shock: 50 g, 11 mS half sine, vertical and

horizontal axis

Vibration: 5-2000-5 Hz, 30 minute cycle,

Curve L, Mil-Spec 810 figure 514-2-2, vertical and horizontal axis

Wetted Parts: 316L stainless steel

Line/Static Pressure: 500 psi maximum applied to both sides simultaneously

Proof Pressure (Differential):

 $10 \text{ inH}_2\text{O} \text{ range} = 10 \text{ times range}$

1 psi range = 6 times range 2.5 to 750 psi ranges = 4 times range

1000 psi range = 3 times range

Hi Side Containment Pressure

(Differential):

Ranges 10 inH₂O to 5 psi: to 1000 psi Ranges 15 to 1000 psi: to 3000 psi

Pressure Ports: 1/4 NPT male

Electrical Terminations: PX409: 2 m (6') cable

PX409C: 2 m (6') cable with ½ NPT

conduit thread

PX419: mini DIN

(mating connector included)

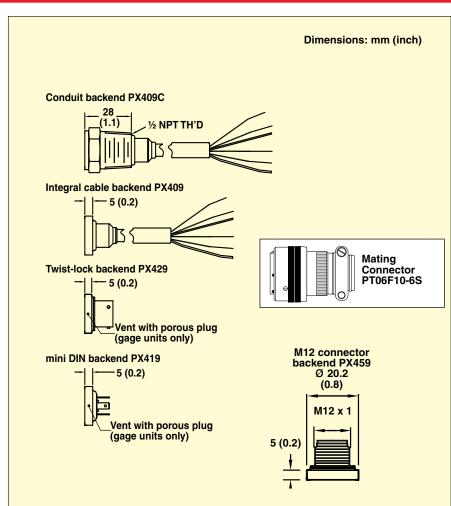
PX429: Twist-lock,

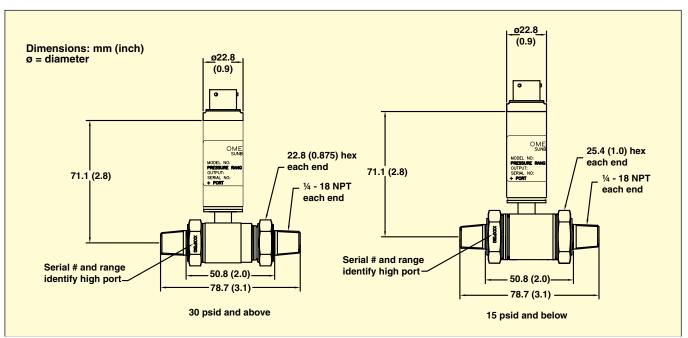
(mating connector sold separately)

PX459: M12 connector **PX429 Mating Connector:**

PT06F10-6S

Weight: 200 g (7 oz) maximum





INFT/INFT DIFFERENTIAL Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it PRESSURE MODELS UNI-DIRECTIONAL RANGES WITH mV/V OUTPUTS

UNI-DIRECTIONAL mV/V SPECIFICATIONS

Output: 10 mV/V ratiometric Supply Voltage: 5 to 10 Vdc Current Draw: 5 mA @ 10 Vdc Input Impedance: 1000 to 5000 Ω Output Impedance: 5000 $\Omega \pm 10\%$ typical

Zero Balance:

Ranges \leq **2.5psi:** \pm 1% typical (2% maximum) Ranges > 2.5psi: $\pm 0.5\%$ typical (1% maximum)

Span Setting:

Ranges \leq 2.5psi: $\pm 1\%$ typical (2% maximum) Ranges > 2.5psi: ±0.5% typical (1% maximum)

CABLE TERMINATION*

To Order

10 mV/V OUTPUT, ¼ NPT MALE FITTINGS			
RANGE	METRIC	MODEL NO.	
0 to 10 inH ₂ O	25 mbar	PX409-10WDWUV	
0 to 1 psi	70 mbar	PX409-001DWUV	
0 to 2.5 psi	170 mbar	PX409-2.5DWUV	
0 to 5 psi	350 mbar	PX409-005DWUV	
0 to 15 psi	1 bar	PX409-015DWUV	
0 to 30 psi	2 bar	PX409-030DWUV	
0 to 50 psi	3.5 bar	PX409-050DWUV	
0 to 100 psi	7 bar	PX409-100DWUV	
0 to 150 psi	10 bar	PX409-150DWUV	
0 to 250 psi	17.5 bar	PX409-250DWUV	
0 to 500 psi	35 bar	PX409-500DWUV	
0 to 750 psi	50 bar	PX409-750DWUV	
0 to 1000 psi	70 bar	PX409-1.0KDWUV	

^{*} To order conduit fitting backend change model number from "PX409" to "PX409C", no additional cost.

MINI DIN TERMINATION

10 mV/V OUTPUT, ¼ NPT MALE FITTINGS			
RANGE	METRIC	MODEL NO.	
0 to 10 inH ₂ O	25 mbar	PX419-10WDWUV	
0 to 1 psi	70 mbar	PX419-001DWUV	
0 to 2.5 psi	170 mbar	PX419-2.5DWUV	
0 to 5 psi	350 mbar	PX419-005DWUV	
0 to 15 psi	1 bar	PX419-015DWUV	
0 to 30 psi	2 bar	PX419-030DWUV	
0 to 50 psi	3.5 bar	PX419-050DWUV	
0 to 100 psi	7 bar	PX419-100DWUV	
0 to 150 psi	10 bar	PX419-150DWUV	
0 to 250 psi	17.5 bar	PX419-250DWUV	
0 to 500 psi	35 bar	PX419-500DWUV	
0 to 750 psi	50 bar	PX419-750DWUV	
0 to 1000 psi	70 bar	PX419-1.0KDWUV	





M12 or TWIST-LOCK TERMINATION

10 mV/V OUTPUT, ¼ NPT MALE FITTING





RANGE	METRIC	MODEL NO.
0 to 10 inH ₂ O	25 mbar	PX4[*]9-10WDWUV
0 to 1 psi	70 mbar	PX4[*]9-001DWUV
0 to 2.5 psi	170 mbar	PX4[*]9-2.5DWUV
0 to 5 psi	350 mbar	PX4[*]9-005DWUV
0 to 15 psi	1 bar	PX4[*]9-015DWUV
0 to 30 psi	2 bar	PX4[*]9-030DWUV
0 to 50 psi	3.5 bar	PX4[*]9-050DWUV
0 to 100 psi	7 bar	PX4[*]9-100DWUV
0 to 150 psi	10 bar	PX4[*]9-150DWUV
0 to 250 psi	17.5 bar	PX4[*]9-250DWUV
0 to 500 psi	35 bar	PX4[*]9-500DWUV
0 to 750 psi	50 bar	PX4[*]9-750DWUV
0 to 1000 psi	70 bar	PX4[*]9-1.0KDWUV

Comes complete with 5-point NIST traceable calibration certificate. [*] Enter "5" for PX459 M12 connector or "2" for PX429 twist lock connector (mating PX429 connector sold separately).

Ordering Examples: PX409-100DWUV, 0 to 100 psi uni-directional wet/wet differential pressure range, 10 mV/V output, 0.08% accuracy, ¼ NPT fittings, 2 m (6') cable.

PX419-015DWUV, 0 to 15 psi uni-directional wet/wet differential pressure range, 10 mV/V output, 0.08% accuracy, 1/4 NPT fittings, mini DIN connector.

PX429-10WDWUV, 0 to 10 inH₂O uni-directional wet/wet differential pressure range, 10 mV/V output, 0.08% accuracy, 1/4 NPT fittings, twist-lock connector plus PT06F10-6S, mating connector.

CONNECTIONS—mV/V OUTPUT

PX429 TW	IST-LOCK	PX419	/PX459	PX409	CABLE
Pin A	+EXC	Pin 1	+EXC	Red	+EXC
Pin B	-EXC	Pin 2	-EXC	Black	-EXC
Pin C	+SIG	Pin 3	+SIG	White	+SIG
Pin D	-SIG	Pin 4	-SIG	Green	-SIG
Pin E	No Connection				
Pin F	No Connection				

INFT/INFT DIFFERENTIALRometec srl - www.rometec.it - info@rometec.it - www.rometec.it - info@rometec.it

PRESSURE MODELS

UNI-DIRECTIONAL RANGES WITH 0 to 5 Vdc OUTPUTS

UNI-DIRECTIONAL VOLTAGE OUTPUT SPECIFICATIONS

Output Voltage/Supply Voltage: 0 to 5 Vdc/ 10 to 30 Vdc; 0 to 10 Vdc/15 to 30 Vdc (change "5V" to "10V" in model number)

Current Draw: 10 mA maximum

Maximum Current Output: 2 mA (= 2500 Ω

minimum load resistance) Output Impedance: 100Ω

Zero Balance:

Ranges > 2.5psi: $\pm 0.5\%$ typical (1% maximum) Ranges \leq 2.5psi: $\pm 1\%$ typical (2% maximum)

Span Setting:

Ranges > 2.5psi: ±0.5% typical (1% maximum) Ranges \leq 2.5psi: $\pm 1\%$ typical (2% maximum)

CABLE TERMINATION*

To Order

0 to 5 Vdc OUTPUT, 1/4 NPT MALE FITTINGS			
RANGE	METRIC	MODEL NO.	
0 to 10 inH ₂ O	25 mbar	PX409-10WDWU5V	
0 to 1 psi	70 mbar	PX409-001DWU5V	
0 to 2.5 psi	170 mbar	PX409-2.5DWU5V	
0 to 5 psi	350 mbar	PX409-005DWU5V	
0 to 15 psi	1 bar	PX409-015DWU5V	
0 to 30 psi	2 bar	PX409-030DWU5V	
0 to 50 psi	3.5 bar	PX409-050DWU5V	
0 to 100 psi	7 bar	PX409-100DWU5V	
0 to 150 psi	10 bar	PX409-150DWU5V	
0 to 250 psi	17.5 bar	PX409-250DWU5V	
0 to 500 psi	35 bar	PX409-500DWU5V	
0 to 750 psi	50 bar	PX409-750DWU5V	
0 to 1000 psi	70 bar	PX409-1.0KDWU5V	

^{*} To order conduit fitting backend change model number from "PX409" to "PX409C", no additional cost.

MINI-DIN TERMINATION

		AZ ALIMAN ARAB	
0 to 5 Vc	ic OIII PIII	" NPI MAI	LE FITTINGS
		/4 4 	

RANGE	METRIC	MODEL NO.
0 to 10 inH ₂ O	25 mbar	PX419-10WDWU5V
0 to 1 psi	70 mbar	PX419-001DWU5V
0 to 2.5 psi	170 mbar	PX419-2.5DWU5V
0 to 5 psi	350 mbar	PX419-005DWU5V
0 to 15 psi	1 bar	PX419-015DWU5V
0 to 30 psi	2 bar	PX419-030DWU5V
0 to 50 psi	3.5 bar	PX419-050DWU5V
0 to 100 psi	7 bar	PX419-100DWU5V
0 to 150 psi	10 bar	PX419-150DWU5V
0 to 250 psi	17.5 bar	PX419-250DWU5V
0 to 500 psi	35 bar	PX419-500DWU5V
0 to 750 psi	50 bar	PX419-750DWU5V
0 to 1000 psi	70 bar	PX419-1.0KDWU5V



available, visit us online

M12 or TWIST-LOCK **TERMINATION**

0 to 5 Vdc OUTPU	T, ¼ NPT MALE F	ITTINGS
DANIOE	METRIC	110

U to 5 Vac UUTPUT, % NPT MALE FITTINGS					
RANGE	METRIC	MODEL NO.			
0 to 10 inH ₂ O	25 mbar	PX4[*]9-10WDWU5V			
0 to 1 psi	70 mbar	PX4[*]9-001DWU5V			
0 to 2.5 psi	170 mbar	PX4[*]9-2.5DWU5V			
0 to 5 psi	350 mbar	PX4[*]9-005DWU5V			
0 to 15 psi	1 bar	PX4[*]9-015DWU5V			
0 to 30 psi	2 bar	PX4[*]9-030DWU5V			
0 to 50 psi	3.5 bar	PX4[*]9-050DWU5V			
0 to 100 psi	7 bar	PX4[*]9-100DWU5V			
0 to 150 psi	10 bar	PX4[*]9-150DWU5V			
0 to 250 psi	17.5 bar	PX4[*]9-250DWU5V			
0 to 500 psi	35 bar	PX4[*]9-500DWU5V			
0 to 750 psi	50 bar	PX4[*]9-750DWU5V			
0 to 1000 psi	70 bar	PX4[*]9-1.0KDWU5V			

Comes complete with 5-point NIST traceable calibration certificate. [*] Enter "5" for PX459 M12 connector or "2" for PX429 twist lock connector (mating PX429 connector sold separately).

Note: To order 0 to 10 Vdc output, change "5V" to "10V" in model number, no additional cost.

Ordering Examples: PX409-100DWU5V, 0 to 100 psi uni-directional wet/wet differential pressure range, 0 to 5 Vdc output, 0.08% accuracy, 1/4 NPT fittings, 2 m (6') cable.

PX419-015DWU5V, 0 to 15 psi uni-directional wet/wet differential pressure range, 0 to 5 Vdc output, 0.08% accuracy, 1/4 NPT fittings, mini DIN connector.

PX429-10WDWU5V, 0 to 10 inH2O uni-directional wet/wet differential pressure range, 0 to 5 Vdc output, 0.08% accuracy, ¼ NPT fittings, twist-lock connector plus **PT06F10-6S**, mating connector.

CONNECTIONS—VOLTAGE OUTPUT

PX429	TWIST-LOCK	PX41	9/PX459	PX409	CABLE
Pin A	+EXC	Pin 1	+EXC	Red	+EXC
Pin B	-COM	Pin 2	-COM	Black	-EXC
Pin C	+SIG	Pin 3	+SIG	White	+SIG
Pin D	No Conn	Pin 4	No Conn	Green	No Conn
Pin E	No Connection	on			
Pin F	No Connection	on			

INFT/MFT DIFFERENTIAL
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PRESSURE MODELS UNI-DIRECTIONAL
RANGES WITH 4 to 20 mA OUTPUTS

UNI-DIRECTIONAL **MA SPECIFICATIONS**

Fast Delivery! Stock to 2 Weeks On Most Models

Output: 4 to 20 mA

Supply Voltage: 9 to 30 Vdc; [9 to 20 Vdc above 105°C (229°F)] Max Loop Resistance: (Vs-9) x 50 Ω

Zero Balance:

Ranges > 2.5psi: $\pm 0.5\%$ typical (1% maximum) Ranges ≤ 2.5psi: ±1% typical (2% maximum)

Span Setting:

To Order

Ranges > 2.5psi: ±0.5% typical (1% maximum) Ranges ≤ 2.5psi: ±1% typical (2% maximum)

PX429-005DWUI, 5 psid range, 4 to 20 mA output, shown smaller than actual size.

Metric threads available, visit us online

CABLE TERMINATION*

10 01401					
4 to 20 mA OUTPUT, ¼ NPT MALE FITTINGS					
RANGE	METRIC	MODEL NO.			
0 to 10 inH ₂ O	25 mbar	PX409-10WDWUI			
0 to 1 psi	70 mbar	PX409-001DWUI			
0 to 2.5 psi	170 mbar	PX409-2.5DWUI			
0 to 5 psi	350 mbar	PX409-005DWUI			
0 to 15 psi	1 bar	PX409-015DWUI			
0 to 30 psi	2 bar	PX409-030DWUI			
0 to 50 psi	3.5 bar	PX409-050DWUI			
0 to 100 psi	7 bar	PX409-100DWUI			
0 to 150 psi	10 bar	PX409-150DWUI			
0 to 250 psi	17.5 bar	PX409-250DWUI			
0 to 500 psi	35 bar	PX409-500DWUI			
0 to 750 psi	50 bar	PX409-750DWUI			
0 to 1000 psi	70 bar	PX409-1.0KDWUI			

^{*} To order conduit fitting backend change model number from "PX409" to "PX409C", no additional cost.

M12 or TWIST-LOCK





Twist-lock

style.

TERMINATION
4 to 20 mA OUTDUT 1/ NOT MALE EL

4 to 20 ma Gott GT, 74 to 1 MALL TITINGS					
RANGE	METRIC	MODEL NO.			
0 to 10 inH ₂ O	25 mbar	PX4[*]9-10WDWUI			
0 to 1 psi	70 mbar	PX4[*]9-001DWUI			
0 to 2.5 psi	170 mbar	PX4[*]9-2.5DWUI			
0 to 5 psi	350 mbar	PX4[*]9-005DWUI			
0 to 15 psi	1 bar	PX4[*]9-015DWUI			
0 to 30 psi	2 bar	PX4[*]9-030DWUI			
0 to 50 psi	3.5 bar	PX4[*]9-050DWUI			
0 to 100 psi	7 bar	PX4[*]9-100DWUI			
0 to 150 psi	10 bar	PX4[*]9-150DWUI			
0 to 250 psi	17.5 bar	PX4[*]9-250DWUI			
0 to 500 psi	35 bar	PX4[*]9-500DWUI			
0 to 750 psi	50 bar	PX4[*]9-750DWUI			
0 to 1000 psi	70 bar	PX4[*]9-1.0KDWUI			

Comes complete with 5-point NIST traceable calibration certificate. [*] Enter "5" for PX459 M12 connector or "2" for PX429 twist lock connector (mating PX429 connector sold separately).

Ordering Examples: PX409-100DWUI, 0 to 100 psi uni-directional wet/wet differential pressure range, 4 to 20 mA output, 0.08% accuracy, ¼ NPT fittings, 2 m (6') cable.

PX419-015DWUI, 0 to 15 psi uni-directional wet/wet differential pressure range, 4 to 20 mA output, 0.08% accuracy, 1/4 NPT fittings, mini DIN connector.

PX429-10WDWUI, 0 to 10 inH₂O uni-directional wet/wet differential pressure range, 4 to 20 mA output, 0.08% accuracy, ½ NPT fittings, twist-lock connector plus **PT06F10-6S**, mating connector.

MINI DIN TERMINATION

4 to 20 mA OUTPUT, ¼ NPT MALE FITTINGS					
RANGE	METRIC	MODEL NO.			
0 to 10 inH ₂ O	25 mbar	PX419-10WDWUI			
0 to 1 psi	70 mbar	PX419-001DWUI			
0 to 2.5 psi	170 mbar	PX419-2.5DWUI			
0 to 5 psi	350 mbar	PX419-005DWUI			
0 to 15 psi	1 bar	PX419-015DWUI			
0 to 30 psi	2 bar	PX419-030DWUI			
0 to 50 psi	3.5 bar	PX419-050DWUI			
0 to 100 psi	7 bar	PX419-100DWUI			
0 to 150 psi	10 bar	PX419-150DWUI			
0 to 250 psi	17.5 bar	PX419-250DWUI			
0 to 500 psi	35 bar	PX419-500DWUI			
0 to 750 psi	50 bar	PX419-750DWUI			
0 to 1000 psi	70 bar	PX419-1.0KDWUI			

CONNECTIONS—CURRENT OUTPUT

PX429 T	WIST-LOCK	PX4	19/PX459	PX409	CABLE
Pin A	+SUP	Pin 1	+SUP	Red	+SUP
Pin B	-SUP	Pin 2	-SUP	Black	-SUP
Pin C	No Conn	Pin 3	No Conn	White	No Conn
Pin D	No Conn	Pin 4	No Conn	Green	No Conn
Pin E	No Connec	tion			
Pin F	No Connec	tion			

Canitary Proceura

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Transducers and Transmitters Using Micro-Machined Silicon Technology 10 mV/V, 0 to 5 Vdc, 4 to 20 mA Outputs

Gage Pressure: 10 inH₂0 to 600 psi (25 mb to 41 bar) Absolute Pressure: 5 to 600 psi (345 mb to 41 bar) Compound Gage: ± 10 inH₂O to ± 15 psi (± 25 mb to ± 1 bar) Vacuum (Negative Gage): 0 to -10 inH₂0 to 0 to -15 psi

(25 mb to 1 bar)

NIST [

Standard

✓ High, 0.08% Accuracy

Welded Stainless Steel

✓ 316L SS Wetted Parts

Shock and Vibration Rated

High Overpressure Rating

Containment System

silicon transducers with 1½" or

2" sanitary fittings are ideal for

in food processing, beverage or

pressure or level CIP applications

bio/pharmaceutical applications as

well as industrial applications that

Ruggedized with Secondary

The PX409S Series micro-machined

Construction

Barometric Ranges: 0 to 32 inHg to 26 to 32 inHg

PX409S Tri-Grip™

Sanitary Series

✓ Solid State Sensor for Durability

Excellent Long Term Stability

PX429S15-015GV. shown smaller than actual size.

The micro-machined silicon sensor provides a very stable transducer with exceptional high accuracy of 0.08% and a broad compensated range of -4 to 85°C (25 to 185°F). The modular construction allows for fast delivery of most configurations and fittings.



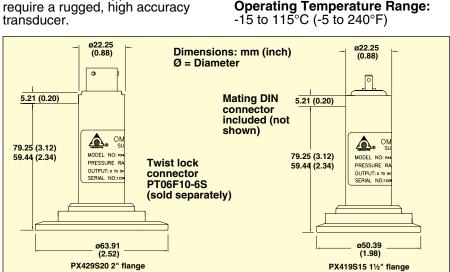
Accuracy: ±0.08% best straight line (linearity, hysteresis and repeatability combined) compound gage models calibrated in positive direction only

Calibration: 5-point NIST traceable calibration with zero and span values, calibrated in horizontal direction

Zero Balance: ±0.5% FS typical ±1% max (for ranges ≤ 5 psi ±1% typ. ±2% max)

Span Setting: ±0.5% FS typical ±1% max (for ranges ≤ 5 psi ±1% typ. ±2% max)

Operating Temperature Range:



mini DIN Twist-lock style. style. 1½" or 2" Tri-Grip™ Fitting

PX419S20-100AV, shown smaller than actual size.

Compensated Temperature Range:

Ranges \leq 5 psi: 4.4 to 60°C (40 to 140°F)

Ranges > 5 psi: -4 to 85°C

(25 to 185°F)

Temperature Compensation: Zero and Span Shift Over **Compensated Range**

Ranges ≤ 5 psi: **Zero:** 1.00% **Span:** 0.5% Ranges > 5psi: **Zero:** 0.50% Span: 0.50%

26B & 26HB Barometric Range:

Zero: 1.00% **Span:** 0.50%

Minimum Isolation Between Case and Output Terminations:

100M Ω @ 50 Vdc

Pressure Cycles: 1 million cycles Long Term Stability (1-Year):

±0.1% FS typical

Shock: 50 g, 11 mS half sine shock,

(under test)

Vibration: ±20 g (under test) Bandwidth: DC to 1 kHz typical

Response Time: <1 mS

Fill Fluid: NEOBEE M5 food grade

Approved to 3A Sanitary Specification 74-05

CE Compliant: Meets industrial emissions and immunity standard IEC61326 for industrial locations

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Environmental Protection:

Pressure Rating:

1½" and 2" Tri-Grip™ (compatible with Tri-Clamp®)

Fitting: 600 psi using suitable clamp

Secondary Containment: 6 x rated pressure to a maximum of 2000 psi (not in clamp)

Wetted Parts:

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Sanitary Pressure Transducers Gage and Absolute Range

Electrical Terminations



10 mV/V Output

- 1½" or 2" Tri-Grip™ Fittings Available
- All Stainless Steel Construction
- High Reliability Silicon Sensor
- 3A Approved



PX4[*]9S20-030AV

PX4[*]9S20-050AV

PX4[*]9S20-100AV

PX4[*]9S20-150AV

PX4[*]9S20-250AV

PX4[*]9S20-500AV







PX45	9S: M	12 cor , abso , gage	nectoi lute	•
P65	rating	, gage		
	A	6	1	
		LA		
	80	1		

To Order						
Range		1½" Tri-Grip™	2" Tri-Grip™			
psi	bar	Fitting	Fitting			
Gage Pressu	Gage Pressure Models, 10 mV/V Output					
0 to 10 inH ₂ O	0 to 25 mb	PX4[*]9S15-10WGV	PX4[*]9S20-10WGV			
0 to 1	0 to 69 mb	PX4[*]9S15-001GV	PX4[*]9S20-001GV			
0 to 2.5	0 to 172 mb	PX4[*]9S15-2.5GV	PX4[*]9S20-2.5GV			
0 to 5	0 to 345 mb	PX4[*]9S15-005GV	PX4[*]9S20-005GV			
0 to 15	0 to 1	PX4[*]9S15-015GV	PX4[*]9S20-015GV			
0 to 30	0 to 2.1	PX4[*]9S15-030GV	PX4[*]9S20-030GV			
0 to 50	0 to 3.4	PX4[*]9S15-050GV	PX4[*]9S20-050GV			
0 to 100	0 to 6.9	PX4[*]9S15-100GV	PX4[*]9S20-100GV			
0 to 150	0 to 10.3	PX4[*]9S15-150GV	PX4[*]9S20-150GV			
0 to 250	0 to 17.2	PX4[*]9S15-250GV	PX4[*]9S20-250GV			
0 to 500	0 to 34.5	PX4[*]9S15-500GV	PX4[*]9S20-500GV			
0 to 600	0 to 41.4	PX4[*]9S15-600GV				
Absolute Pressure Models, 10 mV/V Output						
0 to 5	0 to 345 mb	PX4[*]9S15-005AV	PX4[*]9S20-005AV			
0 to 15	0 to 1	PX4[*]9S15-015AV	PX4[*]9S0-015AV			

PX4[*]9S15-030AV

PX4[*]9S15-050AV

PX4[*]9S15-100AV

PX4[*]9S15-150AV

PX4[*]9S15-250AV

PX4[*]9S15-500AV

PX4[*]9S15-600AV

0 to 41.4 [*] Select Electrical Termination Below (no extra charge)

0 to 2.1

0 to 3.4

0 to 6.9

0 to 10.3

0 to 17.2

0 to 34.5

0 (PX409S) = 2 m (6') cable**

0 to 30

0 to 50

0 to 100

0 to 150

0 to 250

0 to 500

0 to 600

1 (PX419S) = mini DIN connector (mating connector supplied)

2 (PX429S) = twist lock connector (mating connector PT06F10-6S sold separately) 5 (PX459S) = M12 connector (M12 cables sold separately, see accessories on next page)

** To order with a 1/2 NPT conduit fitting, specify model PX409CS.

Ordering Examples: PX409S15-005GV, 2 m (6') cable termination, 1.5" Tri-Grip fitting, 5 psig range, 10 mV/V output.

PX419S20-10WGV, mini DIN connector, 2" Tri-Grip fitting, 10 inH2O range, 10 mV/V output. PX429S15-050GV, twist-lock connector, 1.5" Tri-Grip fitting, 50 psig range, 10 mV/V output. mating connector sold separately, PT06F10-6S.

PX459S15-100GV. M12 connector. 1.5" Tri-Grip fitting. 100 psig range. 10 mV/V output.

Sanitary Pressure Transducers

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Electrical Terminations











Specifications (mV/V Output)

Output: 10 mV/V: ratiometric

5 to 10 Vdc

Supply: 5 to 10 Vdc

Accuracy: ±0.08% BSL (linearity, hysteresis repeatability combined) compound gage models calibrated in

positive direction only

To Order			
R	ange	1½ Tri-Grip™	2" Tri-Grip™
psi	mbar	Fitting	Fitting
Compound G	age Ranges		
±10 inH ₂ O	±25	PX4[*]9S15-10WCGV	PX4[*]9S20-10WCGV
±1	±69	PX4[*]9S15-001CGV	PX4[*]9S20-001CGV
±2.5	±172	PX4[*]9S15-2.5CGV	PX4[*]9S20-2.5CGV
±5	±345	PX4[*]9S15-005CGV	PX4[*]9S20-005CGV
±15	±1034	PX4[*]9S15-015CGV	PX4[*]9S20-015CGV
Vacuum Rang	Vacuum Ranges (Negative Gage, 0 = Ambient)		
0 to -10 inH ₂ O	0 to -25	PX4[*]9S15-10WVV	PX4[*]9S20-10WVV
0 to -1	0 to -69	PX4[*]9S15-001VV	PX4[*]9S20-001VV
0 to -2.5	0 to -172	PX4[*]9S15-2.5VV	PX4[*]9S20-2.5VV
0 to -5	0 to -345	PX4[*]9S15-005VV	PX4[*]9S20-005VV
0 to -15	0 to -1034	PX4[*]9S15-015VV	PX4[*]9S20-015VV
Barometric R	anges (Absolute F	Pressure)	
0 to 32 inHg	_	PX4[*]9S15-32BV	PX4[*]9S20-32BV
16 to 32 inHg	_	PX4[*]9S15-16BV	PX4[*]9S20-16BV
26 to 32 inHg	_	PX4[*]9S15-26BV	PX4[*]9S20-26BV
_	0 to 1100 hPa	PX4[*]9S15-32HBV	PX4[*]9S20-32HBV
_	550 to 1100 hPa	PX4[*]9S15-16HBV	PX4[*]9S20-16HBV
_	880 to 1100 hPa	PX4[*]9S15-26HBV	PX4[*]9S20-26HBV

Accessories

Accessories	
Model No.	Description
M12C-PVC-4-S-F-5	PVC cable, straight 4-pin M12 female connector one end, flying leads one end, 5 m (16.4') long, for PX459
M12C-PVC-4-R-F-5	PVC cable, right angled 4-pin M12 female connector one end, flying leads one end 5 m (16.4') long, for PX459
PT06F10-65	Twist lock connector for PX429

[*] Select Electrical Termination Below (no extra charge)
0 (PX409S) = 2 m (6') with flying leads**
1 (PX419S) = mini DIN connector (mating connector supplied)
2 (PX429S) = twist lock connector (mating connector PT06F-10S sold separately)

5 (PX459S) = M12 connector (M12 cables sold separately see chart above)

** To order with a ½ NPT conduit fitting, specify model **PX409CS**.

Custom configurations also available, see omega.com/pxconfig

Ordering Examples: PX409S15-015CGV, cable termination, 1.5" Tri-grip fitting, ±15 psig range, 10 mV/V output.

PX459S20-001VV, M12 termination, 2" Tri-grip fitting, 0 to -1 psi (vacuum) range, 10 mV/V output. PX419S15-16HBV, mini DIN termination, 1.5" Tri-grip fitting, 550 to 1100 hPa calibrated range, 10 mV/V

Sanitary Pressure Transducers

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0 to 5 or 0 to 10 Vdc **Output**

- 1½" or 2" Tri-Grip™ **Fittings Available**
- ✓ All Stainless Steel Construction
- High Reliability Silicon Sensor
- A 2A Approved

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SETPT	ATMAX POR	
	RESET	
		[* 0
	DP41-E, shown smaller	1

than actual size.

Range		1½" Tri-Grip™	2" Tri-Grip™
psi	bar	Fitting	Fitting
Gage Pressur	e Models, 0 to	5 Vdc Output	
0 to 10 inH ₂ O	0 to 25 mb	PX4[*]9S15-10WG5V	PX4[*]9S20-10WG5V
0 to 1	0 to 69 mb	PX4[*]9S15-001G5V	PX4[*]9S20-001G5V
0 to 2.5	0 to 172 mb	PX4[*]9S15-2.5G5V	PX4[*]9S20-2.5G5V
0 to 5	0 to 345 mb	PX4[*]9S15-005G5V	PX4[*]9S20-005G5V
0 to 15	0 to 1	PX4[*]9S15-015G5V	PX4[*]9S0-015G5V
0 to 30	0 to 2.1	PX4[*]9S15-030G5V	PX4[*]9S20-030G5V
0 to 50	0 to 3.4	PX4[*]9S15-050G5V	PX4[*]9S20-050G5V
0 to 100	0 to 6.9	PX4[*]9S15-100G5V	PX4[*]9S20-100G5V
0 to 150	0 to 10.3	PX4[*]9S15-150G5V	PX4[*]9S20-150G5V
0 to 250	0 to 17.2	PX4[*]9S15-250G5V	PX4[*]9S20-250G5V
0 to 500	0 to 34.5	PX4[*]9S15-500G5V	PX4[*]9S20-500G5V
0 to 600	0 to 41.4	PX4[*]9S15-600G5V	
Absolute Pres	ssure Models, 0	to 5 Vdc Output	
0 to 5	0 to 345 mb	PX4[*]9S15-005A5V	PX4[*]9S20-005A5V
0 to 15	0 to 1	PX4[*]9S15-015A5V	PX4[*]9S0-015A5V
0 to 30	0 to 2.1	PX4[*]9S15-030A5V	PX4[*]9S20-030A5V
0 to 50	0 to 3.4	PX4[*]9S15-050A5V	PX4[*]9S20-050A5V
0 to 100	0 to 6.9	PX4[*]9S15-100A5V	PX4[*]9S20-100A5V
0 to 150	0 to 10.3	PX4[*]9S15-150A5V	PX4[*]9S20-150A5V
0 to 250	0 to 17.2	PX4[*]9S15-250A5V	PX4[*]9S20-250A5V
0 to 500	0 to 34.5	PX4[*]9S15-500A5V	PX4[*]9S20-500A5V
0 to 600	0 to 41.4	PX4[*]9S15-600A5V	

Fo Order

[*] Select Electrical Termination Below (no extra charge)
0 (PX409S) = 2 m (6') cable**
1 (PX419S) = mini DIN connector (mating connector supplied)
2 (PX429S) = twist Lock connector (mating connector PT06F10-6S not included)
5 (PX459S) = M12 connector (M12 cables sold separately, see accessories on next page)

** To order with a 1/2 NPT conduit fitting, specify model PX409CS.

To order 0 to 10 Vdc output, change "5V" to "10V", no extra charge.

Ordering Examples: PX409S15-005G5V, 2 m (6') cable termination, 1.5" Tri-Grip fitting, 5 psig range, 0 to 5 Vdc output.

PX419S20-10WG5V, mini DIN connector, 2" Tri-Grip fitting, 10 inH₂O range, 0 to 5 Vdc output.

PX429S15-050G10V, twist-lock connector, 1.5" Tri-Grip fitting, 50 psig range, 0 to 10 Vdc output, mating connector sold separately, PT06F10-6S.

PX459S15-100G5V, M12 connector, 1.5" Tri-Grip fitting, 100 psig range, 0 to 5 Vdc output.

Sanitary Pressure Transmitters

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Electrical Terminations





PX40	9CS: Conduit/ e IP67 rating
1	







Specifications (Amplified Voltage Output) Output/Supply:

0 to 5 Vdc: 10 to 30 Vdc 0 to 10 Vdc: 15 to 30 Vdc

Accuracy: ±0.08% BSL (linearity, hysteresis repeatability combined) compound gage models calibrated in positive direction only

To Order			
R	ange	1½ Tri-Grip™	2 Tri-Grip™
psi	mbar	Fitting	Fitting
Compound G	age Ranges		
±10 inH ₂ O	±25	PX4[*]9S15-10WCG5V	PX4[*]9S20-10WCG5V
±1	±69	PX4[*]9S15-001CG5V	PX4[*]9S20-001CG5V
±2.5	±172	PX4[*]9S15-2.5CG5V	PX4[*]9S20-2.5CG5V
±5	±345	PX4[*]9S15-005CG5V	PX4[*]9S20-005CG5V
±15	±1034	PX4[*]9S15-015CG5V	PX4[*]9S20-015CG5V
Vacuum Rang	Vacuum Ranges (Negative Gage, 0 = Ambient)		
0 to -10 inH ₂ O	0 to -25	PX4[*]9S15-10WV5V	PX4[*]9S20-10WV5V
0 to -1	0 to -69	PX4[*]9S15-001V5V	PX4[*]9S20-001V5V
0 to -2.5	0 to -172	PX4[*]9S15-2.5V5V	PX4[*]9S20-2.5V5V
0 to -5	0 to -345	PX4[*]9S15-005V5V	PX4[*]9S20-005V5V
0 to -15	0 to -1034	PX4[*]9S15-015V5V	PX4[*]9S20-015V5V
Barometric R	anges (Absolute I	Pressure)	
0 to 32 inHg	_	PX4[*]9S15-32B5V	PX4[*]9S20-32B5V
16 to 32 inHg	_	PX4[*]9S15-16B5V	PX4[*]9S20-16B5V
26 to 32 inHg	_	PX4[*]9S15-26B5V	PX4[*]9S20-26B5V
_	0 to 1100 hPa	PX4[*]9S15-32HB5V	PX4[*]9S20-32HB5V
_	550 to 1100 hPa	PX4[*]9S15-16HB5V	PX4[*]9S20-16HB5V
_	880 to 1100 hPa	PX4[*]9S15-26HB5V	PX4[*]9S20-26HB5V

Accessories

AUUCUUIICU	
Model No.	Description
M12C-PVC-4-S-F-5	PVC cable, straight 4-pin M12 female connector one end, flying leads one end, 5 m (16.4') long, for PX459
M12C-PVC-4-R-F-5	PVC cable, right angled 4-pin M12 female connector one end, flying leads one end 5 m (16.4') long, for PX459
PT06F10-65	Twist lock connector for PX429

[*] Select Electrical Termination Below (no extra charge)
0 (PX409S) = 2 m (6') with flying leads**
1 (PX419S) = mini DIN connector (mating connector supplied)

2 (PX429S) = twist lock connector (mating connector PT06F-10S sold separately) 5 (PX459S) = M12 connector (M12 cables sold separately see chart above)

** To order with a ½ NPT conduit fitting, specify model PX409CS.

To order 0 to 10 Vdc output, change "5V" to "10V", no extra charge.

Ordering Examples: PX409S15-015CG5V, cable termination, 1.5" Tri-grip fitting, ±15 psig range, 0 to 5 Vdc output.

PX459S20-001V5V, M12 termination, 2" Tri-grip fitting, 0 to -1 psi (vacuum) range, 0 to 5 Vdc output. PX419S15-16HB10V, mini DIN termination, 1.5" Tri-grip fitting, 550 to 1100 hPa calibrated range, 0 to 10 Vdc output.

Sanitary Pressure Transducers

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Electrical Terminations



4 to 20 mA

- 1½" or 2" Tri-Grip™ Fittings Available
- All Stainless Steel Construction
- High Reliability Silicon Sensor
- 3A Approved











To Order			
Range		1½" Tri-Grip™	2" Tri-Grip™
psi	bar	Fitting	Fitting
Gage Pressur	e Models, 4 to	20 mA Output	
0 to 10 inH ₂ O	0 to 25 mb	PX4[*]9S15-10WGI	PX4[*]9S20-10WGI
0 to 1	0 to 69 mb	PX4[*]9S15-001GI	PX4[*]9S20-001GI
0 to 2.5	0 to 172 mb	PX4[*]9S15-2.5GI	PX4[*]9S20-2.5GI
0 to 5	0 to 345 mb	PX4[*]9S15-005GI	PX4[*]9S20-005GI
0 to 15	0 to 1	PX4[*]9S15-015GI	PX4[*]9S20-015GI
0 to 30	0 to 2.1	PX4[*]9S15-030GI	PX4[*]9S20-030GI
0 to 50	0 to 3.4	PX4[*]9S15-050GI	PX4[*]9S20-050GI
0 to 100	0 to 6.9	PX4[*]9S15-100GI	PX4[*]9S20-100GI
0 to 150	0 to 10.3	PX4[*]9S15-150GI	PX4[*]9S20-150GI
0 to 250	0 to 17.2	PX4[*]9S15-250GI	PX4[*]9S20-250GI
0 to 500	0 to 34.5	PX4[*]9S15-500GI	PX4[*]9S20-500GI
0 to 600	0 to 41.4	PX4[*]9S15-600GI	
Absolute Pres	ssure Models, ²	to 20 mA Output	
0 to 5	0 to 345 mb	PX4[*]9S15-005AI	PX4[*]9S20-005AI
0 to 15	0 to 1	PX4[*]9S15-015AI	PX4[*]9S20-015AI
0 to 30	0 to 2.1	PX4[*]9S15-030AI	PX4[*]9S20-030AI
0 to 50	0 to 3.4	PX4[*]9S15-050AI	PX4[*]9S20-050A
0 to 100	0 to 6.9	PX4[*]9S15-100AI	PX4[*]9S20-100AI
0 to 150	0 to 10.3	PX4[*]9S15-150AI	PX4[*]9S20-150AI
0 to 250	0 to 17.2	PX4[*]9S15-250AI	PX4[*]9S20-250AI
0 to 500	0 to 34.5	PX4[*]9S15-500AI	PX4[*]9S20-500AI
0 to 600	0 to 41.4	PX4[*]9S15-600AI	

[*] Select Electrical Termination Below (no extra charge)
0 (PX409S) = 2 m (6') cable**
1 (PX419S) = mini DIN connector (mating connector supplied)
2 (PX429S) = Twist Lock connector (mating connector PT06F10-6S sold separately)
5 (PX459S) = M12 connector (M12 cables sold separately, see accessories on next page)

** To order with a ½ NPT conduit fitting, specify model PX409CS.

Ordering Examples: PX409S15-005GI, 2 m (6') cable termination, 1.5" Tri-Grip fitting, 5 psig range, 4 to 20 mA output.

PX419S20-10WGI, mini DIN connector, 2" Tri-Grip fitting, 10 inH₂O range, 4 to 20 mA output.

PX429S15-050GI, twist-lock connector, 1.5" Tri-Grip fitting, 50 psig range, 4 to 20 mA output, mating connector sold separately, **PT06F10-6S.** PX459S15-100GI, M12 connector, 1.5" Tri-Grip fitting, 100 psig range, 4 to 20 mA output.

Sanitary Pressure Transmitters

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Electrical Terminations













Specifications) **Output/Supply:**

Output: 4 to 20 mAdc Supply: 9 to 30 Vdc

[9 to 20 Vdc above 105°C (229°F)] max loop res Ω = (Vs-9) x 50

Accuracy: ±0.08% BSL (linearity, hysteresis repeatability combined) compound gage models

calibrated in positive direction only



To Order			
R	ange	1½ Tri-Grip™	2" Tri-Grip™
psi	mbar	Fitting	Fitting
Compound G	age Ranges		
±10 inH ₂ O	±25	PX4[*]9S15-10WCGI	PX4[*]9S20-10WCGI
±1	±69	PX4[*]9S15-001CGI	PX4[*]9S20-001CGI
±2.5	±172	PX4[*]9S15-2.5CGI	PX4[*]9S20-2.5CGI
±5	±345	PX4[*]9S15-005CGI	PX4[*]9S20-005CGI
±15	±1034	PX4[*]9S15-015CGI	PX4[*]9S20-015CGI
Vacuum Rang	ges (Negative Gag	e, 0 = Ambient)	
0 to -10 inH ₂ O	0 to -25	PX4[*]9S15-10WVI	PX4[*]9S20-10WVI
0 to -1	0 to -69	PX4[*]9S15-001VI	PX4[*]9S20-001VI
0 to -2.5	0 to -172	PX4[*]9S15-2.5VI	PX4[*]9S20-2.5VI
0 to -5	0 to -345	PX4[*]9S15-005VI	PX4[*]9S20-005VI
0 to -15	0 to -1034	PX4[*]9S15-015VI	PX4[*]9S20-015VI
Barometric R	anges (Absolute I	Pressure)	
0 to 32 inHg	_	PX4[*]9S15-32BI	PX4[*]9S20-32BI
16 to 32 inHg	_	PX4[*]9S15-16BI	PX4[*]9S20-16BI
26 to 32 inHg	_	PX4[*]9S15-26BI	PX4[*]9S20-26BI
_	0 to 1100 hPa	PX4[*]9S15-32HBI	PX4[*]9S20-32HBI
_	550 to 1100 hPa	PX4[*]9S15-16HBI	PX4[*]9S20-16HBI
_	880 to 1100 hPa	PX4[*]9S15-26HBI	PX4[*]9S20-26HBI

Accessories

Model No.	Description
M12C-PVC-4-S-F-5	PVC cable, straight 4-pin M12 female connector one end, flying leads one end, 5 m (16.4') long, for PX459
M12C-PVC-4-R-F-5	PVC cable, right angled 4-pin M12 female connector one end, flying leads one end 5 m (16.4') long, for PX459
PT06F10-65	Twist lock connector for PX429

[*] Select Electrical Termination Below (no extra charge) 0 (PX409S) = 2 m (6') cable with flying leads** 1 (PX419S) = mini DIN cable (mating connector included)

2 (PX429S) = twist-lock connector (mating connector PT06F-10S sold separately) 5 (PX459S) = M12 connector, (M12 cables sold separately see chart above)

** For ½ NPT conduit connector order model PX409CS

Custom configurations also available, see omega.com/pxconfig

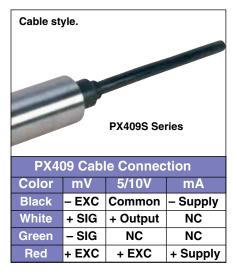
Ordering Examples: PX409S15-015CGI, cable termination, 1.5" Tri-grip fitting, ±15 psig range, 4 to 20 mA output.

PX459S20-001VI, M12 termination, 2" Tri-grip fitting, 0 to -1 psi (vacuum) range, 4 to 20 mA output. PX419S15-16HBI, mini DIN termination, 1.5" Tri-grip fitting, 550 to 1100 hPa calibrated range, 4 to 20 mA

High Accuracy Pressure Transducers

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All images shown smaller than actual size.





Common

+ Output

NC

- Supply

NC

NC

2

3

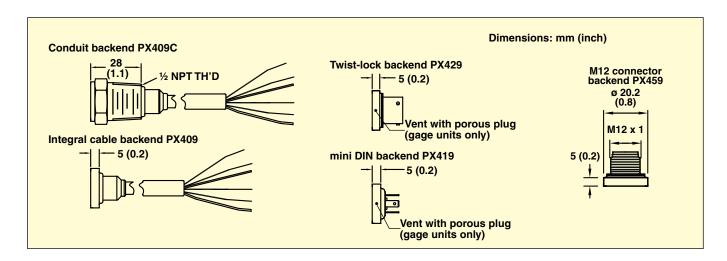
- EXC

+ SIG

- SIG

Twist-lock style. PX429S Series			
Р	X429 Tv	vist-Lock F	Pinout
Pin	mV	5/10V	mA
Α	+ EXC	+ EXC	+ Supply
В	– EXC	Common	- Supply
С	+ SIG	+ Output	NC
D	– SIG	NC	NC
Е	NC	NC	NC
F	NC	NC	NC

NC = No Connection.



Compatible Meters and Accessories

Meters		
Model No.	Description	
DP41-S	6-digit high accuracy (0.005%) process meter for use with milli voltage and strain gage bridge output models	
DP41-E	6-digit high accuracy (0.005%) meter for use with voltage and current output models	
DP25B-E	4-digit precision process meter for use with voltage and current output models	
Accessories		
CX5302	Extra mini DIN connector for PX419 Series	
PT06F10-6S	Mating twist lock connector for PX429 Series	
M12C-PVC-4-S-F-5	PVC cable, straight 4-pin M12 female connector one end, flying leads one end, 5 m (16.4') long, for PX459	
M12C-PVC-4-R-F-5	PVC cable, right angled 4-pin M12 female connector one end, flying leads one end 5 m (16.4') long, for PX459	

Canitary Proceure Transducere

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and Iransmitters

Using Micro-Machined Silicon Technology 10 mV/V, 0 to 5 Vdc, 4 to 20 mA Outputs

Gage or Absolute Pressures 10 inH₂0 to 600 psi (25 mbar to 41 bar) Gage 5 psi to 500 psi (344 mb to 34.5 bar) Absolute 1½" or 2" Tri-Grip Fitting

PX409S Tri-Grip™ Sanitary Series



- ✓ High, 0.08%, Accuracy
- ✓ Solid State Sensor for **Durability**
- Excellent Long Term Stability
- ✓ Welded Stainless Steel Construction
- ✓ 316L SS Wetted Parts
- Shock and Vibration Rated
- High Overpressure Rating
- Ruggedized with Secondary Containment

The PX409S Series micromachined silicon transducers with 1½ or 2" sanitary fittings are ideal for pressure or level CIP applications in food processing, beverage or bio/pharmaceutical applications as well as industrial applications that require a rugged, high accuracy transducer. The micro-machined silicon sensor provides a very stable transducer with exceptional high accuracy of 0.08% and a broad compensated range of -6.7 to 85°C (20 to 185°F). The modular construction allows for fast delivery of most configurations and fittings.

Specifications

Accuracy: 0.08% Best Straight Line (Linearity, Hysteresis and Repeatability combined)

Operating Temperature Range:

-15 to 115°C (-5 to 240°F)

Compensated Temperature Range: -6.7 to 85°C (20 to 185°F)

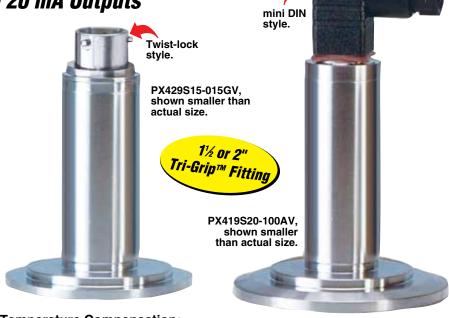
Temperature Compensation:

4.4°C to 60°C (40°F to 140°F) for

ranges ≤5 PSI

-4.4°C to 85°C (25°F to 185°F) for

ranges >5 PSI



Dimensions: mm (inch)

5.21 (0.20)

79.25 (3.12)

59.44 (2.34)

(0.88)

<u>.</u>.

MODEL NO: PX4

PRESSURE RA

0

Ø = Diameter

Temperature Compensation:

Zero and span combined > 5 psi: 1% over 55.6°C (100°F) range

≤ **5 psi**: 2% over 55.6°C (100°F) range

Min Isolation Between Case and Output Terminations:

100 MΩ @ 50 Vdc

Pressure Cycles: 1 million,

minimum

Long Term Stability (1-Year): ±0.1% FS typ.

Shock: 50 g, 11 ms half sine shock,

(under test)

Vibration: ±20 g (under test) Bandwidth: DC to 1 kHz typical

Designed to Meet or Exceed 3A Sanitary Specification 74-05

emissions and immunity standard

IP65 or IP67 depending upon

Pressure Rating:

suitable clamp

Over Pressure: 4 x rated pressure to maximum rated flange pressure

Secondary Containment: 6 x rated pressure to a maximum of 2000 psi

(not in clamp)

Weight: 285 am (10 oz)

Response Time: <1 ms Fill Fluid: NEOBEE M5 Food grade PX429S20 2" flange **CE Compliant:** Meets industrial ø22.25 (0.88) Mating connector IEC61326 included **Environmental Protection:** (not shown) 5.21 (0.20) electrical termination 1½" and 2" Tri-Grip™ (Tri-Clamp® compatible) fitting: 600 psi using 79.25 (3.12) MODEL NO: PX4 59.44 (2.34) PRESSURE RA OUTPUT: 0 TO SERIAL NO:1 a50.39 Wetted Parts: 316L SS PX419S15 11/2" flange

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Electrical Terminations



Specifications (10 mV/V Output)

Output/ Supply: 10 mV/V; Ratiometric 5 to 10 Vdc Accuracy: ±0.08% BSL

(linearity, hysteresis repeatability

combined)

Zero Balance: ±0.5% FS typical 1% max (For ranges ≤ 5 psi ±1% typ ±2% max)

Span Setting: ±0.5% FS typical 1% max (For ranges ≤ 5 psi ±1% typ ±2% max) Călibrated in horizontal

position







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A	16	(
177				

To Order			
Ran		1½" Tri-Grip™	2" Tri-Grip™
psi	bar	Fitting	Fitting
	ire Models, 10 n	nV/V Output	
0 to 10 inH ₂ O	0 to 25 mb	PX4[*]9S15-10WGV	PX4[*]9S20-10WGV
0 to 1	0 to 69 mb	PX4[*]9S15-001GV	PX4[*]9S20-001GV
0 to 2.5	0 to 172 mb	PX4[*]9S15-2.5GV	PX4[*]9S20-2.5GV
0 to 5	0 to 345 mb	PX4[*]9S15-005GV	PX4[*]9S20-005GV
0 to 15	0 to 1	PX4[*]9S15-015GV	PX4[*]9S0-015GV
0 to 30	0 to 2.1	PX4[*]9S15-030GV	PX4[*]9S20-030GV
0 to 50	0 to 3.4	PX4[*]9S15-050GV	PX4[*]9S20-050GV
0 to 100	0 to 6.9	PX4[*]9S15-100GV	PX4[*]9S20-100GV
0 to 150	0 to 10.3	PX4[*]9S15-150GV	PX4[*]9S20-150GV
0 to 250	0 to 17.2	PX4[*]9S15-250GV	PX4[*]9S20-250GV
0 to 500	0 to 34.5	PX4[*]9S15-500GV	PX4[*]9S20-500GV
0 to 600	0 to 41.4	PX4[*]9S15-600GV	
Absolute Pre	essure Models,	10 mV/V Output	
0 to 5	0 to 345 mb	PX4[*]9S15-005AV	PX4[*]9S20-005AV
0 to 15	0 to 1	PX4[*]9S15-015AV	PX4[*]9S0-015AV
0 to 30	0 to 2.1	PX4[*]9S15-030AV	PX4[*]9S20-030AV
0 to 50	0 to 3.4	PX4[*]9S15-050AV	PX4[*]9S20-050A
0 to 100	0 to 6.9	PX4[*]9S15-100AV	PX4[*]9S20-100AV
0 to 150	0 to 10.3	PX4[*]9S15-150AV	PX4[*]9S20-150AV
0 to 250	0 to 17.2	PX4[*]9S15-250AV	PX4[*]9S20-250AV
0 to 500	0 to 34.5	PX4[*]9S15-500AV	PX4[*]9S20-500AV
0 to 600	0 to 41.4	PX4[*]9S15-600AV	

[*] Select Electrical Termination Below

0 (PX409S) = 2 m (6') cable**

1 (PX419S) = mini DIN connector (mating connector supplied)

2 (PX429S) = Twist Lock connector (mating connector PT06F10-6S not included)

5 (PX459S) = M12 connector (mating connector not included)

** To order with a ½ NPT conduit fitting, specify model **PX409CS**.

Ordering Examples: PX409S15-005GV, 2 m (6') cable termination, 1.5" Tri-Grip fitting, 5 psig range, 10 mV/V output.

PX419S20-10WGV, mini DIN connector, 2" Tri-Grip fitting, 10 inH₂O range, 10 mV/V output. PX429S15-050GV, twist-lock connector, 1.5" Tri-Grip fitting, 50 psig range, 10 mV/V output, mating connector sold separately, PT06F10-6S.

PX459S15-100GV, M12 connector, 1.5" Tri-Grip fitting, 100 psig range, 10 mV/V output.



Specifications (Amplified Voltage Output)

Output/ Supply:

0 to 5 Vdc: 10 to 30 Vdc @10 mA 0 to 10 Vdc: 15 to 30 Vdc @

10 mA

Accuracy: ±0.08% BSL (linearity,

hysteresis repeatability

combined)

Zero Balance: ±0.5% FS typical ±1% max (For ranges ≤ 5 psi ±1% typ ±2% max)

Span Setting: ±0.5% FS typical 1% max (For ranges ≤ 5 psi ±1% typ ±2% max) calibrated in horizontal position



Exploded view showing PX429S15-005GI, Standard Tri-Grip™ fitting works with commercially available sanitary pipes and fittings. Shown smaller than actual size.

To Order			
Ran	ge	1½" Tri-Grip™	2" Tri-Grip™
psi	bar	Fitting	Fitting
Gage Press	ure Models, 0 t	o 5 Vdc Output	
0 to 10 inH ₂ O	0 to 25 mb	PX4[*]9S15-10WG5V	PX4[*]9S20-10WG5V
0 to 1	0 to 69 mb	PX4[*]9S15-001G5V	PX4[*]9S20-001G5V
0 to 2.5	0 to 172 mb	PX4[*]9S15-2.5G5V	PX4[*]9S20-2.5G5V
0 to 5	0 to 345 mb	PX4[*]9S15-005G5V	PX4[*]9S20-005G5V
0 to 15	0 to1	PX4[*]9S15-015G5V	PX4[*]9S0-015G5V
0 to 30	0 to 2.1	PX4[*]9S15-030G5V	PX4[*]9S20-030G5V
0 to 50	0 to 3.4	PX4[*]9S15-050G5V	PX4[*]9S20-050G5V
0 to 100	0 to 6.9	PX4[*]9S15-100G5V	PX4[*]9S20-100G5V
0 to 150	0 to 10.3	PX4[*]9S15-150G5V	PX4[*]9S20-150G5V
0 to 250	0 to 17.2	PX4[*]9S15-250G5V	PX4[*]9S20-250G5V
0 to 500	0 to 34.5	PX4[*]9S15-500G5V	PX4[*]9S20-500G5V
0 to 600	0 to 41.4	PX4[*]9S15-600G5V	
Absolute Pr	essure Models	, 0 to 5 Vdc Output	
0 to 5	0 to 345 mb	PX4[*]9S15-005A5V	PX4[*]9S20-005A5V
0 to 15	0 to 1	PX4[*]9S15-015A5V	PX4[*]9S0-015A5V
0 to 30	0 to 2.1	PX4[*]9S15-030A5V	PX4[*]9S20-030A5V
0 to 50	0 to 3.4	PX4[*]9S15-050A5V	PX4[*]9S20-050A
0 to 100	0 to 6.9	PX4[*]9S15-100A5V	PX4[*]9S20-100A5V
0 to 150	0 to 10.3	PX4[*]9S15-150A5V	PX4[*]9S20-150A5V
0 to 250	0 to 17.2	PX4[*]9S15-250A5V	PX4[*]9S20-250A5V
0 to 500	0 to 34.5	PX4[*]9S15-500A5V	PX4[*]9S20-500A5V
0 to 600	0 to 41.4	PX4[*]9S15-600A5V	

[*] Select Electrical Termination

0 (PX409S) = 2 m (6') cable**

1 (PX419S) = mini DIN connector (mating connector supplied)

2 (PX429S) = Twist Lock connector (mating connector PT06F10-6S not included)

5 (PX459S) = M12 connector (mating connector not included)

** To order with a ½ NPT conduit fitting, specify model **PX409CS**.

To order 0 to 10 Vdc output, change "5V" to "10V", no extra charge.

Ordering Examples: PX409S15-005G5V, 2 m (6') cable termination, 1.5" Tri-Grip fitting, 5 psig range, 0 to 5 Vdc output.

PX419S20-10WG5V, mini DIN connector, 2" Tri-Grip fitting, 10 inH₂O range, 0 to 5 Vdc output. **PX429S15-050G10V**, Twist-lock connector, 1.5" Tri-Grip fitting, 50 psig range, 0 to 10 Vdc output, mating connector sold separately, **PT06F10-6S**.

PX459S15-100G5V, M12 connector, 1.5" Tri-Grip fitting, 100 psig range, 0 to 5 Vdc output.

Electrical Terminations



Specifications (4 to 20 mA Output)

Output: 4 to 20 mA Supply Voltage: 9 to 30 Vdc [9 to 20 Vdc above 105° C (229°F)] max loop res $\Omega = (Vs - 90) \times 50$ Accuracy: $\pm 0.08\%$ BSL (linearity,

hysteresis repeatability combined)

Zero Balance: ±0.5% FS typical 1% max (For ranges ≤ 5 psi ±1%

typ ±2% max)

Span Setting: ±0.5% FS typical 1% max (For ranges ≤ 5 psi ±1% typ 2% max) Calibrated in horizontal

position











To Order			
Range		1½" Tri-Grip™	2" Tri-Grip™
psi	bar	Fitting	Fitting
Gage Pressu	re Models, 4 to	20 mA Output	
0 to 10 inH ₂ O	0 to 25 mb	PX4[*]9S15-10WGI	PX4[*]9S20-10WGI
0 to 1	0 to 69 mb	PX4[*]9S15-001GI	PX4[*]9S20-001GI
0 to 2.5	0 to 172 mb	PX4[*]9S15-2.5GI	PX4[*]9S20-2.5GI
0 to 5	0 to 345 mb	PX4[*]9S15-005GI	PX4[*]9S20-005GI
0 to 15	0 to 1	PX4[*]9S15-015GI	PX4[*]9S0-015GI
0 to 30	0 to 2.1	PX4[*]9S15-030GI	PX4[*]9S20-030GI
0 to 50	0 to 3.4	PX4[*]9S15-050GI	PX4[*]9S20-050GI
0 to 100	0 to 6.9	PX4[*]9S15-100GI	PX4[*]9S20-100GI
0 to 150	0 to 10.3	PX4[*]9S15-150GI	PX4[*]9S20-150GI
0 to 250	0 to 17.2	PX4[*]9S15-250GI	PX4[*]9S20-250GI
0 to 500	0 to 34.5	PX4[*]9S15-500GI	PX4[*]9S20-500GI
0 to 600	0 to 41.4	PX4[*]9S15-600GI	
Absolute Pre	ssure Models, 4	to 20 mA Output	
0 to 5	0 to 345 mb	PX4[*]9S15-005AI	PX4[*]9S20-005AI
0 to 15	0 to1	PX4[*]9S15-015AI	PX4[*]9S0-015AI
0 to 30	0 to 2.1	PX4[*]9S15-030AI	PX4[*]9S20-030AI
0 to 50	0 to 3.4	PX4[*]9S15-050AI	PX4[*]9S20-050A
0 to 100	0 to 6.9	PX4[*]9S15-100AI	PX4[*]9S20-100AI
0 to 150	0 to 10.3	PX4[*]9S15-150AI	PX4[*]9S20-150AI
0 to 250	0 to 17.2	PX4[*]9S15-250AI	PX4[*]9S20-250AI
0 to 500	0 to 34.5	PX4[*]9S15-500AI	PX4[*]9S20-500AI
0 to 600	0 to 41.4	PX4[*]9S15-600AI	

[*] Select Electrical Termination

- 0 (PX409S) = 2 m (6') cable**
- 1 (PX419S) = mini DIN connector (mating connector supplied)
- 2 (PX429S) = Twist Lock connector (mating connector PT06F10-6S not included)
- 5 (PX459S) = M12 connector (mating connector not included)
- ** To order with a 1/2 NPT conduit fitting, specify model **PX409CS**.

Ordering Examples: PX409S15-005GI, 2 m (6') cable termination, 1.5" Tri-Grip fitting, 5 psig range, 4 to 20 mA output.

PX419S20-10WGI, mini DIN connector, 2" Tri-Grip fitting, 10 inH₂O range, 4 to 20 mA output. **PX429S15-050GI,** Twist-lock connector, 1.5" Tri-Grip fitting, 50 psig range, 4 to 20 mA output, mating connector sold separately, **PT06F10-6S.**

PX459S15-100GI, M12 connector, 1.5" Tri-Grip fitting, 100 psig range, 4 to 20 mA output.

High Accuracy Pressure Transducers

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All images shown smaller than actual size.





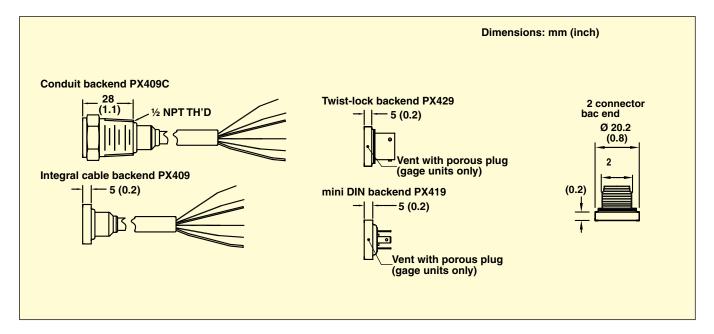
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Ρ.	X429 ⁻
Die	V
	IIIV

Twist-lock style.
PX429-015GI.

PX409 Cable Connection			
Color	mV	5/10V	mA
Black	– EXC	Common	- Supply
White	+ SIG	+ Output	NC
Green	– SIG	NC	NC
Red	+ EXC	+ EXC	+ Supply

PX419/PX459 Pinout			
Pin	mV	5/10V	mA
1	+ EXC	+ EXC	+ Supply
2	– EXC	Common	- Supply
3	+ SIG	+ Output	NC
4	- SIG	NC	NC

PX429 Twist-Lock Pinout				
Pin	mV	5/10V	mA	
Α	+ EXC	+ EXC	+ Supply	
В	– EXC	Common	- Supply	
С	+ SIG	+ Output	NC	
D	– SIG	NC	NC	
Ε	NC	NC	NC	
F	NC	NC	NC	



Compatible Meters and Accessories

Companie meters and Accessories			
Meters			
Model No.	Description		
DP41-S	6-digit high accuracy (0.005%) process meter for use with millivolt and strain gage bridge output models		
DP41-B	6-digit high accuracy (0.005%) universal meter for use with voltage and current output models also accepts thermocouple and RTD inputs		
DP25B-E	4-digit precision process meter for use with voltage and current output models		
Accessories			
CX5302	Extra mini DIN connector for PX419 Series		
PT06F10-6S	Mating twist lock connector for PX429 Series		

M12 Cables	Description
M12C-PVC-4-S-F-5	PVC cable, straight 4-pin M12 female connector one end, flying leads one end, 5 m (16.4') long
M12C-PVC-4-R-F-5	PVC cable, right angled 4-pin M12 female connector one end, flying leads one end 5 m (16.4') long

Canitary Proceura Traneducare

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with Metric Ranges High 0.08% Accuracy

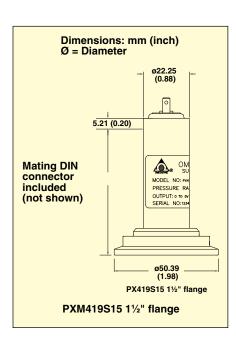
Gage Pressure: 25 mb to 40 bar Absolute Pressure: 350 mb to 40 bar Compound Gage: ±25 mbar to ±1 bar

Vacuum (Negative Gage): 0 to -25 mbar to 0 to -1 bar Barometric Ranges: 0,550 or 880 hPa to 1100 hPa





- ✓ High 0.08% Accuracy
- Solid State Sensor for Long **Term Stability**
- Welded Stainless Steel Construction
- 316L SS Wetted Parts
- Shock and Vibration Rated
- High Overpressure Rating
- Ruggedized with Secondary Containment System
- ✓ Industrial CE Rating



The PXM409S Sanitary Metric range Series micromachined silicon transducers with 1½ or 2" sanitary fittings are ideal for pressure or level CIP applications in food processing, beverage, dairy, or bio/ pharmaceutical applications. They are also rugged enough for most industrial applications requiring a high accuracy CIP transducer. The micromachined silicon sensor provides a very stabile reading with exceptional high accuracy of 0.08% and a broad compensated temperature range of -4 to 85°C on most ranges. The modular construction allows for fast delivery of most configurations and fittings. Plus, customized models also can be delivered quickly to suit your exact needs.

COMMON SPECIFICATIONS

Accuracy: ±0.08% Best Straight Line (Linearity, Hysteresis and Repeatability combined) Compound Gage models calibrated in positive direction only

Calibration: 5-point NIST traceable calibration with zero and span values, calibrated in horizontal direction

Zero Balance: ±0.5% full scale typical ±1% maximum (for ranges ≤350 mb ±1% typical ±2% maximum)

Span Setting: ±0.5% full scale typical ±1% maximum (for ranges ≤350 mb ±1% typical ±2%maximum)



-15 to 115°C (-5 to 240°F)

mini DIN style.

1½ or 2" Tri-Grip™ Fitting

PXM419S20-001BAV, shown smaller than actual size.

Compensated Temperature Range:

≤**350 mb:** 4.4 to 60°C (40 to 140°F)

>350 mb: -4 to 85°C (25 to 185°F)

Temperature Compensation Zero and Span Shift Over Compensated Range:

170 mb: Zero: 1.00%

Span: 1.00%

> 350 mb: Zero: 0.50%

Span: 0.50%

550H and 880H Barometric Range:

Zero: 1.00% **Span:** 0.50%

Minimum Isolation Between Case and Output Terminations:

100 M Ω @ 50 Vdc

Pressure Cycles: 1 million,

minimum

Long Term Stability (1-Year):

±0.1% full scale typical

Shock: 50 g, 11 mS half sine shock,

(under test)

Vibration: ±20 g (under test)

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Bandwidth: DC to 1 kHz typical Response Time: <1 mS

Fill Fluid: NEOBEE M5 Food Grade

Approved to 3A Sanitary Specification 74-05

CE Compliant: Meets industrial emissions and immunity standard

IEC61326

Environmental Protection:

IP65 or IP67 depending upon

electrical termination

Pressure Rating: 1½" and 2"
Tri-Grip™ (compatible the Tri-Clamp®)

Fitting: 40 bar using suitable clamp

Over Pressure: 4 x rated pressure to maximum rated flange pressure Secondary Containment: 6 x rated pressure to a maximum of 138 bar

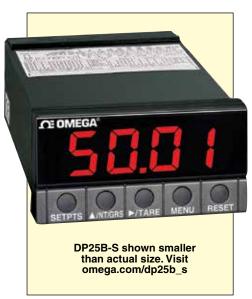
(not in clamp)
Wetted Parts: 316L SS
Weight: 285 g (10 oz)

Sanitary Pressure Transducers Gage and Absolute Pressure Ranges

10 mV/V Output

- 1½ or 2" Tri-Grip™ Fittings Available
- ✓ All Stainless Steel Construction
- High Reliability Silicon Sensor
- 3A Approved





To Order		
bar	1½" Tri-Grip™ Fitting	2" Tri-Grip™ Fitting
Gage Press	ure Models, 10 mV/V Output	
0 to 25 mb	PXM4[*]9S15-025HGV	PXM4[*]9S20-025HGV
0 to 70 mb	PXM4[*]9S15-070HGV	PXM4[*]9S20-070HGV
0 to 170 mb	PXM4[*]9S15-170HGV	PXM4[*]9S20-170HGV
0 to 350 mb	PXM4[*]9S15-350HGV	PXM4[*]9S20-350HGV
0-1 bar	PXM4[*]9S15-001BGV	PXM4[*]9S20-001BGV
0 to 2	PXM4[*]9S15-002BGV	PXM4[*]9S20-002BGV
0 to 3.5	PXM4[*]9S15-3.5BGV	PXM4[*]9S20-3.5BGV
0 to 7	PXM4[*]9S15-007BGV	PXM4[*]9S20-007BGV
0 to 10	PXM4[*]9S15-010BGV	PXM4[*]9S20-010BGV
0 to 17.5	PXM4[*]9S15-17.5BGV	PXM4[*]9S20-17.5BGV
0 to 35	PXM4[*]9S15-035BGV	PXM4[*]9S20-035BGV
0 to 40	PXM4[*]9S15-040BGV	N/A
Absolute Pr	essure Models, 10 mV/V Outpเ	ıt
0 to 350 mb	PXM4[*]9S15-350HAV	PXM4[*]9S20-350HAV
0 to 1 bar	PXM4[*]9S15-001BAV	PXM4[*]9S20-001BAV
0 to 2	PXM4[*]9S15-002BAV	PXM4[*]9S20-002BAV
0 to 3.5	PXM4[*]9S15-3.5BAV	PXM4[*]9S20-3.5BAV
0 to 7	PXM4[*]9S15-007BAV	PXM4[*]9S20-007BAV
0 to 10	PXM4[*]9S15-010BAV	PXM4[*]9S20-010BAV
0 to 17.5	PXM4[*]9S15-17.5BAV	PXM4[*]9S20-17.5BAV
0 to 35	PXM4[*]9S15-035BAV	PXM4[*]9S20-035BAV
0 to 40	PXM4[*]9S15-040BAV	N/A

Comes complete with 5-point NIST traceable calibration.

[*] Select electrical termination, no extra charge.

Insert "0" for 2 m (9') cable with flying leads.

For cable with ½ NPT conduit connector order model PXM409CS, no extra charge.

Insert "1" for mini DIN cable (mating connector included).

Insert "5" for M12 connector, M12 cables sold separately (see below).

Custom configurations also available, see omega.com/pxconfig

Ordering Examples: PXM409S15-350HGV, 2 m (9') cable termination, 1.5" Tri-Grip fitting, 350 mb range, 10 mV/V output.

PXM419S20-001BAV, mini-DIN connector, 2" Tri-Grip fitting, 0 to 1 bar absolute range, 10 mV/V output.

PXM459S15-007BGI, M12 connector, 1.5" Tri-Grip fitting, 7 bar range, 10 mV/V output.

Sanitary Pressure Transducers

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Specifications (mV/V Output)

Output: 10 mV/V: Ratiometric

5 to 10 Vdc

Supply: 5 to 10 Vdc

Accuracy: ±0.08% BSL (linearity, hysteresis repeatability combined) compound gage models calibrated

in positive direction only

Electrical Terminations









To Order				
Range	1½" Tri-Grip™	2" Tri-Grip™		
mbar	Fitting	Fitting		
Compound Gage R	anges			
± 25 mbar	PXM4[*]9S15-025HCGV	PXM4[*]9S20-025HCGV		
± 70 mbar	PXM4[*]9S15-070HCGV	PXM4[*]9S20-070HCGV		
± 170 mbar	PXM4[*]9S15-170HCGV	PXM4[*]9S20-170HCGV		
± 350 mbar	PXM4[*]9S15-350HCGV	PXM4[*]9S20-350HCGV		
± 1 bar	PXM4[*]9S15-001BCGV	PXM4[*]9S20-001BCGV		
Vacuum Ranges (N	legative Gage, 0 = Ambien	t)		
0 to -25 mbar	PXM4[*]9S15-025HVV	PXM4[*]9S20-025HVV		
0 to -70 mbar	PXM4[*]9S15-070HVV	PXM4[*]9S20-070HVV		
0 to -170 mbar	PXM4[*]9S15-170HVV	PXM4[*]9S20-170HVV		
0 to -350 mbar	PXM4[*]9S15-350HVV	PXM4[*]9S20-350HVV		
0 to -1 bar	PXM4[*]9S15-001BVV	PXM4[*]9S20-001BVV		
Barometric Ranges (Absolute Pressure)				
0 to 1100 hPa	PXM4[*]9S15-1100HBV	PXM4[*]9S20-1100HBV		
550 to 1100 hPa	PXM4[*]9S15-550HBV	PXM4[*]9S20-550HBV		
880 to 1100 hPa	PXM4[*]9S15-880HBV	PXM4[*]9S20-880HBV		

Accessories

Model No.	Description
M12C-PVC-4-S-F-5	PVC cable, straight 4-pin M12 female connector one end, flying leads one end, 5 m (16.4') long, for PXM459
M12C-PVC-4-R-F-5	PVC cable, right angled 4-pin M12 female connector one end, flying leads one end, 5 m (16.4') long, for PXM459

Comes complete with 5-point NIST traceable calibration.

[*] Select electrical termination, no extra charge.

Insert "0" for 2 m (9') cable with flying leads.

For ½ NPT conduit connector order model PXM409CS, no extra charge.

Insert "1" for mini DIN cable (mating connector included).

Insert "5" for M12 connector, M12 cables sold separately (see below).

Custom configurations also available, see omega.com/pxconfig

Ordering Examples: PXM409S15-170HCGV, cable termination, 1.5" Tri-grip fitting, ± 170 mbar range, 10 mV/V output.

PXM459S20-001BVV, M12 termination, 2" Tri-grip fitting, 0 to -1 bar (vacuum) range, 10 mV/V output.

PXM419S15-550HBV, mini-DIN termination, 1.5" Tri-grip fitting, 550 to 1100 hPa calibrated barometric range, 10 mV/V output.

Sanitary Pressure Transducers

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0 to 10 Vdc Output

- 1½ or 2" Tri-Grip™ Fittings Available
- All Stainless Steel Construction
- High Reliability Silicon Sensor
- 3A Approved





To Order			
bar	1½" Tri-Grip™ Fitting	2" Tri-Grip™ Fitting	
Gage Pressu	re Models, 0 to 10 Vdc Out	put	
0 to 25 mb	PXM4[*]9S15-025HG10V	PXM4[*]9S20-025HG10V	
0 to 70 mb	PXM4[*]9S15-070HG10V	PXM4[*]9S20-070HG10V	
0 to 170 mb	PXM4[*]9S15-170HG10V	PXM4[*]9S20-170HG10V	
0 to 350 mb	PXM4[*]9S15-350HG10V	PXM4[*]9S20-350HG10V	
0 to 1 bar	PXM4[*]9S15-001BG10V	PXM4[*]9S20-001BG10V	
0 to 2	PXM4[*]9S15-002BG10V	PXM4[*]9S20-002BG10V	
0 to 3.5	PXM4[*]9S15-3.5BG10V	PXM4[*]9S20-3.5BG10V	
0 to 7	PXM4[*]9S15-007BG10V	PXM4[*]9S20-007BG10V	
0 to 10	PXM4[*]9S15-010BG10V	PXM4[*]9S20-010BG10V	
0 to 17.5	PXM4[*]9S15-17.5BG10V	PXM4[*]9S20-17.5BG10V	
0 to 35	PXM4[*]9S15-035BG10V	PXM4[*]9S20-035BG10V	
0 to 40	PXM4[*]9S15-040BG10V	N/A	
Absolute Pre	essure Models, 0 to 10 Vdc	Output	
0 to 350 mb	PXM4[*]9S15-350HA10V	PXM4[*]9S20-350HA10V	
0 to 1 bar	PXM4[*]9S15-001BA10V	PXM4[*]9S20-001BA10V	
0 to 2	PXM4[*]9S15-002BA10V	PXM4[*]9S20-002BA10V	
0 to 3.5	PXM4[*]9S15-3.5BA10V	PXM4[*]9S20-3.5BA10V	
0 to 7	PXM4[*]9S15-007BA10V	PXM4[*]9S20-007BA10V	
0 to 10	PXM4[*]9S15-010BA10V	PXM4[*]9S20-010BA10V	
0 to 17.5	PXM4[*]9S15-17.5BA10V	PXM4[*]9S20-17.5BA10V	
0 to 35	PXM4[*]9S15-035BA10V	PXM4[*]9S20-035BA10V	
0 to 40	PXM4[*]9S15-040BA10V	N/A	

Comes complete with 5-point NIST traceable calibration.

[*] Select electrical termination, no extra charge.

Insert "0" for 2 m (9') cable with flying leads.

For cable with ½ NPT conduit connector order model PXM409CS, no extra charge.

Insert "1" for mini DIN cable (mating connector included).

Insert "5" for M12 connector, M12 cables sold separately (see below).

Custom configurations also available, see omega.com/pxconfig

Ordering Examples: PXM409S15-350HG10V, 2 m (9') cable termination, 1.5" Tri-Grip fitting, 350 mb range, 0 to 10 Vdc.

PXM419S20-001BA10V, mini-DIN connector, 2" Tri-Grip fitting, 0 to 1 bar absolute range, 0 to 10 Vdc.

PXM459S15-007BG10V, M12 connector, 1.5" Tri-Grip fitting, 7 bar range, 0 to 10 Vdc.

Sanitary Pressure Transmitters

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Specifications (Amplified Voltage Output) Output/Supply (0 to 10 Vdc): 15 to 30 Vdc

Accuracy: ±0.08% BSL (linearity, hysteresis repeatability combined) compound gage models calibrated in positive direction only

Electrical Terminations









To Order		
Range	1½" Tri-Grip™ Fitting	2" Tri-Grip™ Fitting
Compound Gage	Ranges	
± 25 mbar	PXM4[*]9S15-025HCG10V	PXM4[*]9S20-025HCG10V
± 70 mbar	PXM4[*]9S15-070HCG10V	PXM4[*]9S20-070HCG10V
± 170 mbar	PXM4[*]9S15-170HCG10V	PXM4[*]9S20-170HCG10V
± 350 mbar	PXM4[*]9S15-350HCG10V	PXM4[*]9S20-350HCG10V
± 1 bar	PXM4[*]9S15-001BCG10V	PXM4[*]9S20-001BCG10V
Vacuum Ranges (Negative Gage, 0 = Ambier	nt)
0 to -25 mbar	PXM4[*]9S15-025HV10V	PXM4[*]9S20-025HV10V
0 to -70 mbar	PXM4[*]9S15-070HV10V	PXM4[*]9S20-070HV10V
0 to -170 mbar	PXM4[*]9S15-170HV10V	PXM4[*]9S20-170HV10V
0 to -350 mbar	PXM4[*]9S15-350HV10V	PXM4[*]9S20-350HV10V
0 to -1 bar	PXM4[*]9S15-001BV10V	PXM4[*]9S20-001BV10V
Barometric Range	es (Absolute Pressure)	
0 to 1100 hPa	PXM4[*]9S15-1100HB10V	PXM4[*]9S20-1100HB10V
550 to 1100 hPa	PXM4[*]9S15-550HB10V	PXM4[*]9S20-550HB10V
880 to 1100 hPa	PXM4[*]9S15-880HB10V	PXM4[*]9S20-880HB10V

Accessories

Model No.	Description
M12C-PVC-4-S-F-5	PVC cable, straight 4-pin M12 female connector one end, flying leads one end, 5 m (16.4') long, for PXM459
M12C-PVC-4-R-F-5	PVC cable, right angled 4-pin M12 female connector one end, flying leads one end, 5 m (16.4') long, for PXM459

Comes complete with 5-point NIST traceable calibration.

[*] Select electrical termination, no extra charge.

Insert "0" for 2 m (9') cable with flying leads

For cable with ½ NPT conduit connector order model PXM409CS, no extra charge.

Insert "1" for mini DIN cable (mating connector included).

Insert "5" for M12 connector, M12 cables sold separately (see below).

Custom configurations also available, see omega.com/pxconfig

Ordering Examples: PXM409S15-170HCG10V, cable termination, 1.5" Tri-grip fitting, ± 170 mbar range, 0 to 10 Vdc output.

PXM459S20-001BV10V, M12 termination, 2" Tri-grip fitting, 0 to -1 bar (vacuum) range, 0 to 10 Vdc output.

PXM419S15-550HB10V, mini DIN termination, 1.5" Tri-grip fitting, 550 to 1100 hPa calibrated barometric range, 0 to 10 Vdc output.

Sanitary Pressure Transducers

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4 to 20 mA

- 1½ or 2" Tri-Grip™ Fittings Available
- All Stainless Steel Construction
- High Reliability Silicon Sensor
- 3A Approved





To Order					
bar	1½" Tri-Grip™ Fitting	2" Tri-Grip™ Fitting			
Gage Pressu	Gage Pressure Models, 4 to 20 mA Output				
0 to 25 mb	PXM4[*]9S15-025HGI	PXM4[*]9S20-025HGI			
0 to 70 mb	PXM4[*]9S15-070HGI	PXM4[*]9S20-070HGI			
0 to 170 mb	PXM4[*]9S15-170HGI	PXM4[*]9S20-170HGI			
0 to 350 mb	PXM4[*]9S15-350HGI	PXM4[*]9S20-350HGI			
0-1 bar	PXM4[*]9S15-001BGI	PXM4[*]9S20-001BGI			
0 to 2	PXM4[*]9S15-002BGI	PXM4[*]9S20-002BGI			
0 to 3.5	PXM4[*]9S15-3.5BGI	PXM4[*]9S20-3.5BGI			
0 to 7	PXM4[*]9S15-007BGI	PXM4[*]9S20-007BGI			
0 to 10	PXM4[*]9S15-010BGI	PXM4[*]9S20-010BGI			
0 to 17.5	PXM4[*]9S15-17.5BGI	PXM4[*]9S20-17.5BGI			
0 to 35	PXM4[*]9S15-035BGI	PXM4[*]9S20-035BGI			
0 to 40	PXM4[*]9S15-040BGI	N/A			
Absolute Pro	essure Models, 4 to 20 mA O	utput			
0 to 350 mb	PXM4[*]9S15-350HAI	PXM4[*]9S20-350HAI			
0-1 bar	PXM4[*]9S15-001BAI	PXM4[*]9S20-001BAI			
0 to 2	PXM4[*]9S15-002BAI	PXM4[*]9S20-002BAI			
0 to 3.5	PXM4[*]9S15-3.5BAI	PXM4[*]9S20-3.5BAI			
0 to 7	PXM4[*]9S15-007BAI	PXM4[*]9S20-007BAI			
0 to 10	PXM4[*]9S15-010BAI	PXM4[*]9S20-010BAI			
0 to 17.5	PXM4[*]9S15-17.5BAI	PXM4[*]9S20-17.5BAI			
0 to 35	PXM4[*]9S15-035BAI	PXM4[*]9S20-035BAI			
0 to 40	PXM4[*]9S15-040BAI	N/A			

Comes complete with 5-point NIST traceable calibration.

[*] Select electrical termination, no extra charge.

Insert "0" for 2 m (9') cable with flying leads.

For cable with ½ NPT conduit connector order model PXM409CS, no extra charge

Insert "1" for mini DIN cable (mating connector included)

Insert "5" for M12 connector, M12 cables sold separately (see below)

Custom configurations also available, see omega.com/pxconfig

Ordering Examples: PXM409S15-350HGI, 2 m (9') cable termination, 1.5" Tri-Grip fitting, 350 mbar range, 4 to 20 mA output.

PXM419S20-001BAI, mini-DIN connector, 2" Tri-Grip fitting, 0 to 1 bar absolute range, 4 to 20 mA output

PXM459S15-007BGI, M12 connector, 1.5." Tri-Grip fitting, 7 bar range, 4 to 20 mA output.

Sanitary Pressure Transmitters

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Specifications)

Output: 4 to 20 mAdc Supply: 9 to 30 Vdc

9 to 20 Vdc above 105°C (229°F) max loop res Ω = (Vs-9) x 50

Accuracy: ±0.08% BSL (linearity, hysteresis repeatability combined) compound gage models calibrated

in positive direction only

Electrical Terminations









To Order				
Range	41/ II Tui Ouin IM Fishin o			
mbar	1½" Tri-Grip™ Fitting	2" Tri-Grip™ Fitting		
Compound Gage I	Ranges			
± 25 mbar	PXM4[*]9S15-025HCGI	PXM4[*]9S20-025HCGI		
± 70 mbar	PXM4[*]9S15-070HCGI	PXM4[*]9S20-070HCGI		
± 170 mbar	PXM4[*]9S15-170HCGI	PXM4[*]9S20-170HCGI		
± 350 mbar	PXM4[*]9S15-350HCGI	PXM4[*]9S20-350HCGI		
± 1 bar	PXM4[*]9S15-001BCGI	PXM4[*]9S20-001BCGI		
Vacuum Ranges (I	Negative Gage, 0 = Ambie	ent)		
0 to -25 mbar	PXM4[*]9S15-025HVI	PXM4[*]9S20-025HVI		
0 to -70 mbar	PXM4[*]9S15-070HVI	PXM4[*]9S20-070HVI		
0 to -170 mbar	PXM4[*]9S15-170HVI	PXM4[*]9S20-170HVI		
0 to -350 mbar	PXM4[*]9S15-350HVI	PXM4[*]9S20-350HVI		
0 to -1 bar	PXM4[*]9S15-001BVI	PXM4[*]9S20-001BVI		
Barometric Ranges (Absolute Pressure)				
0 to 1100 hPa	PXM4[*]9S15-1100HBI	PXM4[*]9S20-1100HBI		
550 to 1100 hPa	PXM4[*]9S15-550HBI	PXM4[*]9S20-550HBI		
880 to 1100 hPa	PXM4[*]9S15-880HBI	PXM4[*]9S20-880HBI		

Accessories

Model No.	Description
M12C-PVC-4-S-F-5	PVC cable, straight 4-pin M12 female connector one end, flying leads one end, 5 m (16.4') long, for PXM459
M12C-PVC-4-R-F-5	PVC cable, right angled 4-pin M12 female connector one end, flying leads one end, 5 m (16.4') long, for PXM459

Comes complete with 5-point NIST traceable calibration.

[*] Select electrical termination, no extra charge.

Insert "0" for 2 m (9') cable with flying leads.

For cable with ½ NPT conduit connector order model PXM409CS, no extra charge.

Insert "1" for mini DIN cable (mating connector included).

Insert "5" for M12 connector, M12 cables sold separately.

Custom configurations also available, see omega.com/pxconfig

Ordering Examples: PXM409S15-170HCGI, cable termination, 1.5" Tri-grip fitting, ± 170 mbar range, 4 to 20 mA output.

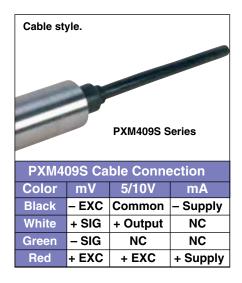
PXM459S20-001BVI, M12 termination, 2" Tri-grip fitting, 0 to -1 bar (vacuum) range, 4 to 20 mA output.

PXM419S15-550HBI, mini DIN termination, 1.5" Tri-grip fitting, 550 to 1100 hPa calibrated barometric range, 4 to 20 mA output.

High Accuracy Pressure Transducers

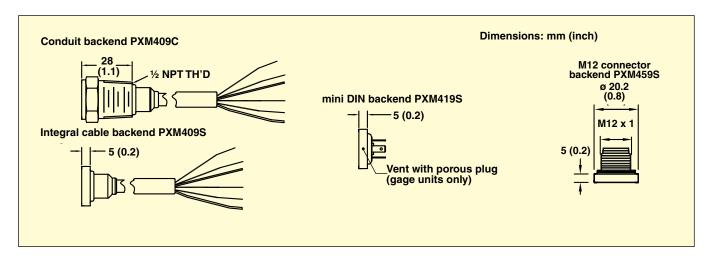
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All images shown smaller than actual size.





NC = No Connection.



Compatible Meters and Accessories

Meters	Meters		
Model No.	Description		
DP41-S	6-digit high accuracy (0.005%) process meter for use with milli voltage and strain gage bridge output models		
DP41-E	6-digit high accuracy (0.005%) meter for use with voltage and current output models		
DP25B-E	4-digit precision process meter for use with voltage and current output models		
Accessories			
CX5302	Extra mini DIN connector for PXM419S Series		
M12C-PVC-4-S-F-5	PVC cable, straight 4-pin M12 female connector one end, flying leads one end, 5 m (16.4') long, for PXM459S		
M12C-PVC-4-R-F-5	PVC cable, right angled 4-pin M12 female connector one end, flying leads one end 5 m (16.4') long, for PXM459S		

IICR Autnut Canitary Fitting

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Gage, Absolute, Compound Gage, Vacuum and Barometric Pressures 10 inH₂0 to 600 psi (25 mb to 41 bar)

PX409S Sanitary USBH Series



- ✓ High Speed 1000 Updates/Second
- Micromachined Silicon Sensor
- ✓ 316L SS Wetted Parts
- ✓ High 0.08% Accuracy
- Excellent Long Term Stability
- ✓ USB 2.0 and Below Compatible
- Standard USB Cable Termination
- Ruggedized with Secondary Containment System

The PX409S Sanitary USBH Series connects directly to your computer. The Sanitary Series is 3A approved and available with 1½" or 2" Tri-Grip™ (Tri-Clamp® compatible) fittings to work with most common applications. Free software makes data logging and charting your readings a simple task. The micromachined silicon design is ideal for pressure or level applications in laboratory, test platforms, or bio/ pharmaceutical applications as well as industrial applications that require a rugged, high accuracy transducer. The micromachined silicon sensor provides a very stable transducer with exceptional high accuracy of 0.08% typical and a broad compensated range (see specs for details). The modular construction allows for fast delivery of most configurations and fittings.

Specifications

Accuracy: 0.08% typical best straight line, 0.14% maximum (linearity, hysteresis and repeatability combined) compound gage models calibrated in positive direction only

Calibration: 5-point NIST traceable calibration with zero and span values calibrated in horizontal direction

Zero Balance: ±0.5% full scale typical ±1% maximum (±1% typical, ±2% maximum for 5 psi and below)



FREE Omega™ USBH Downloadable Software!

Omega is excited to announce the release of a major software update for USB Transducers! The fresh look and added features add even more value and flexibility to your transducer's performance.

Free Omega PC software takes the data from the transducer directly to the digital domain, turning your laptop or Windows® tablet (with USB connection) into a virtual meter, chart recorder, or data logger.

Also included are .NET APIs and a set for command-line access. Visit ftp://ftp.omega.com/public/DASGroup/products/USBH/ to download your free copy.*

*Includes software to run TRH Central compatible devices.

Span Setting: ±0.5% full scale typical ±1% maximum (±1% typical, ±2% maximum for 5 psi and below). Calibrated in vertical direction with fitting down

Operating Temperature Range: -15 to 95°C (-5 to 203°F)

Compensated Temperature

Ranges ≤5 psi: 4.4 to 60°C (40 to 140°F)

Ranges >5 psi: -4 to 85°C

(25 to 185°F)

Temperature Compensation Zero and Span Shift Over Compensated Range:

Ranges ≤ 5 psi: Zero: 1.00% Span: 1.00% Metric threads and ranges available.

Ranges >5 psi: Zero: 0.50% Span: 0.50%

26B/26HB Barometric Range:

Zero: 1.00% Span: 0.50% Minimum Isolation:

100 M Ω @ 50 Vdc case to sensor 2 M Ω @ 50 Vdc case to output

terminations

Pressure Cycles: >1million minimum Long Term Stability (1 Year):

±0.1% full scale typical

Shock: 50 g, 11 mS half sine shock,

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(under test)

Vibration: ±20 g (under test) Bandwidth: DC to 1000 updates

per second typical (±3%) A to D Conversion: 24 bit

Fill Fluid: NEOBEE M5 food grade

Approved to 3A Sanitary Specification 74-05 **CE Compliant:** Meets industrial emissions and immunity standard IEC61326

Environmental Protection: IP65 Pressure Rating: 1½" and 2" Tri-Grip™

To Order

Range

Fitting: 600 psi using suitable clamp Over Pressure: 4 x rated pressure to maximum rated flange pressure

Secondary Containment: 6 x rated

Range

pressure to a maximum of 2000 psi

(not in clamp)

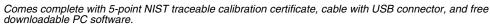
1.5" Tri-Grip

Wetted Parts: 316L stainless steel

2.0" Tri-Grip

Weight: 285 g (10 oz)

psi	bar	Models	Models
		iwodels	Models
Gage Pressure	i e	I	
0 to 10 inH ₂ O	0 to 25 mb	PX409S15-10WGUSBH	PX409S20-10WGUSBI
0 to 1	0 to 69 mb	PX409S15-001GUSBH	PX409S20-001GUSBH
0 to 2.5	0 to 172 mb	PX409S15-2.5GUSBH	PX409S20-2.5GUSBH
0 to 5	0 to 345 mb	PX409S15-005GUSBH	PX409S20-005GUSBH
0 to 15	0 to 1	PX409S15-015GUSBH	PX409S20-015GUSBH
0 to 30	0 to 2.1	PX409S15-030GUSBH	PX409S20-030GUSBH
0 to 50	0 to 3.4	PX409S15-050GUSBH	PX409S20-050GUSBH
0 to 100	0 to 6.9	PX409S15-100GUSBH	PX409S20-100GUSBH
0 to 150	0 to 10.3	PX409S15-150GUSBH	PX409S20-150GUSBH
0 to 250	0 to 17.2	PX409S15-250GUSBH	PX409S20-250GUSBH
0 to 500	0 to 34.5	PX409S15-500GUSBH	PX409S20-500GUSBH
0 to 600	0 to 41.4	PX409S15-600GUSBH	_
Absolute Press	sure		
0 to 5	0 to 345 mb	PX409S15-005AUSBH	PX409S20-005AUSBH
0 to 15	0 to 1	PX409S15-015AUSBH	PX409S20-015AUSBH
0 to 30	0 to 2.1	PX409S15-030AUSBH	PX409S20-030AUSBH
0 to 50	0 to 3.4	PX409S15-050AUSBH	PX409S20-050AUSBH
0 to 100	0 to 6.9	PX409S15-100AUSBH	PX409S20-100AUSBH
0 to 150	0 to 10.3	PX409S15-150AUSBH	PX409S20-150AUSBH
0 to 250	0 to 17.2	PX409S15-250AUSBH	PX409S20-250AUSBH
0 to 500	0 to 34.5	PX409S15-500AUSBH	PX409S20-500AUSBH
0 to 600	0 to 41.4	PX409S15-600AUSBH	_
Vacuum Range	es (Negative Gago		
0 to -10 inH ₂ O	0 to -25 mb	PX409S15-10WVUSBH	PX409S20-10WVUSBI
0 to -1 psi	0 to -69 mb	PX409S15-001VUSBH	PX409S20-001VUSBH
0 to -2.5 psi	0 to -172 mb	PX409S15-2.5VUSBH	PX409S20-2.5VUSBH
0 to -5 psi	0 to -345 mb	PX409S15-005VUSBH	PX409S20-005VUSBH
0 to -15 psi	0 to -1	PX409S15-015VUSBH	PX409S20-015VUSBH
Compound Gag	ge Ranges		
±10 inH ₂ O	±25 mb	PX409S15-10WCGUSBH	PX409S20-10WCGUSE
±1 psi	±69 mb	PX409S15-001CGUSBH	PX409S20-001CGUSB
±2.5 psi	±172 mb	PX409S15-2.5CGUSBH	PX409S20-2.5CGUSBI
±5 psi	±345 mb	PX409S15-005CGUSBH	PX409S20-005CGUSB
±15 psi	±1	PX409S15-015CGUSBH	PX409S20-015CGUSB
Barometric Rai	nges (Absolute P	ressure)	
0 to 32 inHg	_	PX409S15-32BUSBH	PX409S20-32BUSBH
16 to 32 inHg	_	PX409S15-16BUSBH	PX409S20-16BUSBH
26 to 32 inHg	_	PX409S15-26BUSBH	PX409S20-26BUSBH
_	0 to 1100 hPa	PX409S15-32HBUSBH	PX409S20-32HBUSBH
_	550 to 1100 hPa	PX409S15-16HBUSBH	PX409S20-16HBUSBH
	880 to 1100 hPa	PX409S15-26HBUSBH	PX409S20-26HBUSBH



Ordering Examples: PX409S15-015GUSBH, 1.5" Tri-Grip fitting, 2 m (6') cable termination with USB termination, 15 psi gage range, USB Output.

PX409S20-16BUSBH, 2" Tri-Grip fitting, 2 m (6') cable termination with USB termination, 16 to 32 inHg barometric range, USB Output.

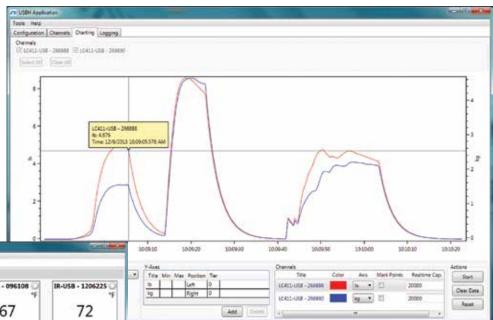
Omega USBH Major Software Update

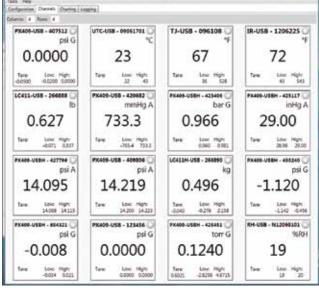
Omega is excited to announce the release of a major software update for USB Transducers! The fresh look and added features add even more value and flexibility to your transducer's performance. Free Omega PC software takes the data from the transducer directly to the digital domain, turning your laptop or Windows® tablet (with USB connection) into a virtual meter, chart recorder, or data logger. Also included are .NET APIs and a set for command-line access.

Visit ftp://ftp.omega.com/public/DASGroup/products/USBH/ to download your free copy.*

* Includes software to run TRH Central compatible devices.

Charting Window – The addition of a charting window allows you to see your data graphed in real time. The Y axis is configurable to allow simultaneous graphing of multiple engineering units. You can output the image of your data to a png file.





Channels Window – Display data from all of your sensors simultaneously. Each channel has configurable user alarms, three data filters, tare, resettable low/high indication, and sample rates ranging from 30 minutes to 1000 Hz.

Logging Window – A new xls filetype output option presents preformatted data for readability. In addition, Live Statistics are displayed, including the sensor information, the start/stop time, the number of samples taken, the current reading, and the High/Low readings. With the logging window, you can capture your data for later analysis.

PX409-USBH-425117
Units psi
Count 10
Last 14.2349
Low 14.2349
High 14.2353

Support for Omega Pressure, Force, Temperature, and Humidity USB Transducers One software package supports:

PX409-*-USB, PX409-*-USBH, LC411-*-USBH, TJ-USB, IR-USB, RH-USB and UTC-USB transducers.













PRESSURE TRANSDUCERS



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WITH HIGH TEMP. PERFORMANCE FOR INDUSTRY, AUTOMOTIVE, TEST, AND AEROSPACE APPLICATIONS

mV/V, 0 to 5 Vdc, 0 to 10 Vdc, 4 to 20 mA Outputs

Low Pressure: 10 inH₂0 and Standard Ranges: 5 to 5000 psi Metric Ranges: 25 mbar to 345 bars

Gage or Absolute Pressure

PX409 Series



✓ High Accuracy ±0.08% BSL Includes Linearity, Hysteresis, and Repeatability

Broad Temperature Compensated Range -29 to 85°C (-20 to 185°F)

✓ Premium Temperature Performance Span: ±0.5% Over Compensated Range

✓ 5-Point NIST Traceable Calibration Included

✓ Digital Dynamic Thermal Compensation **Across Temperature and Pressure Range**

✓ Low Pressure Ranges from 10 inH₂O

✓ All Stainless Steel Wetted Parts

✓ Fast Response Time

Solid State Reliability and Stability

Gage and Absolute Pressures

✓ 300% Proof Pressure Minimum

OMEGA piezoresistive pressure transducers have a proven record in high performance commercial and aerospace applications for over 25 years. The piezoresistive process uses strain gages molecularly embedded into a highly stable silicon wafer. The silicon wafer is diced into individual die which each contain a full strain gage bridge. The die is mounted in a sealed chamber protected from the environment by glass to metal seals and a stainless steel diaphragm.

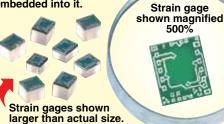
A small volume of silicone oil transfers the pressure from the diaphragm to the strain bridge. The construction provides a very rugged transducer with exceptional accuracy, stability and thermal effects. A unique design ruggedizes the transducers by providing secondary fluid containment in the event of a diaphragm rupture.

At our state-of-the-art facilities, automated test equipment performs pressure and temperature cycling on 100% of the PX409 transducers. The transducers are then calibrated using extremely high accuracy equipment and a 5-point NIST traceable calibration certificate that is included with each transducer. To obtain their high accuracy and stability, the PX409 Series use state-of-the-art digital mapping of the temperature, pressure and output performance of the silicon sensor in conjunction with a custom ASIC to provide dynamic thermal compensation across the

All models shown actual size. PX409-050GV, features cable termination. PX419-100GI features mini-DIN termination. PX429-015GI, features twist-lock termination. Stock Delivery for most Ranges!

PX409 SERIES SILICON WAFER TECHNOLOGY

PX409 Series uses a highly stable silicon wafer which is micro-machined to precision tolerances and then has strain gages molecularly embedded into it.



temperature and pressure parameters. The inherent stability of the piezoresistive core provides excellent long term stability, repeatability and very low thermal effects at the price of much lower performance transducers. Standard features of the PX409 Series also include protective features built into the electronics and the pressure element. Reverse polarity, EMC, and power supply fluctuation protection are standard on all

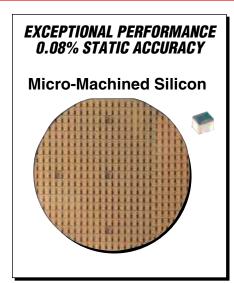
The most popular ranges and configurations are stocked for immediate delivery. All others typically have a verv short lead-time.

models. Intrinsically Safe and CSA ratings are optional.

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PIEZORESISTIVE DESIGN WITH HIGH TEMPERATURE PERFORMANCE



5-Point NIST Traceable Calibration Certificate



Thermal Effects -29 to 85°C (-20 to 185°F) Span Error: 100 psig 0.60 0.50 0.40 0.30 0.20 Error (% Span) 0.10 - High Limit -PX409 0.00 Competitor's Models an 140 220 — Low Limit -0.10 -0.20-0.30 -0.40-0.50 -0.60

Temperature °F

RUGGEDIZED DESIGN For Aerospace, Automotive, Test and Industrial Applications

Custom configurations available!

Designed to be quickly customized to meet your exacting specifications, often with fast delivery. Custom variables are available including custom fittings, accuracies, ranges, calibrations, pressure units, thermal specifications, vibration, operating temperature and compensated range. Contact OMEGA Pressure Engineering for more details.

Common Specifications Gage and Absolute Pressure

Approvals: RoHS compliant **Minimum Isolation Between Case** and Output Terminations: 100M Ω @ 50 Vdc

Pressure Cycles: 1 million, minimum Long Term Stability (1-Year): ±0.1% FS typical

Shock: 50 g, 11 mS half sine, vertical and horizontal axis

Vibration: 5-2000-5 Hz. 30 minute cycle, Curve L, Mil-Spec 810 figure 514-2-2, vertical and horizontal axis

Bandwidth: DC to 1 kHz typical Response Time: <1 mS

CE Compliant:

Emissions: IEC550022 Class B

Electrostatic Discharge Immunity: I⊑C61000-1-3

EM Field Immunity: IEC61000-4-3 EFT Immunity: IEC61000-4-4 Surge Immunity: IEC61000-4-5 Conducted RF: IEC610000-4-6 **Rate Power Frequency Magnetic**

Field: IEC61000-4-8 **Electrical Termination:**

PX409: Integral 2 m (6') cable PX409C: Integral 2 m (6') cable with ½ NPT conduit fitting

PX419: mini-DIN PX429: Twist lock

Environmental Protection:

PX409: IP67 PX409C: IP67 PX419: IP65 PX429: IP65

Overpressure Gage Pressure: 10 inH2O: 10 times span

1 psi: 6 times span 2.5 to 1000 psi: 4 times span **1500 to 5000 psi:** 7250 psi maximum

Overpressure Absolute Pressure:

5 psia: 6 times span

2.5 psia to 1000 psia: 4 times span 1500 to 5000 psia: 10,000 psi

maximum

Secondary Containment Gage/Diff/Vac/Compound:

10 inH2O to 5 psi: To 1000 psi **15 to 1000 psi:** To 3000 psi **1500 to 5000 psi:** To 10,000 psi

Absolute/Barometric:

5 to 1000 psi: To 6000 psia **1500 to 5000 psi:** To 10,000 psia

Wetted Parts: 316 SS Pressure Port: 1/4-18 NPT male Weight: 115 to 200 gm (4 to 7 oz) depending upon configuration

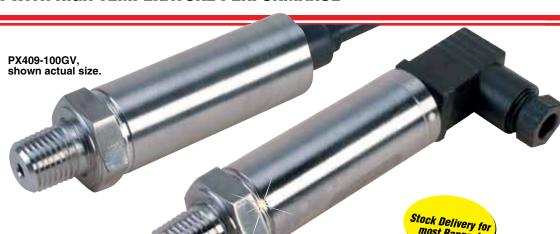
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HIGH PERFORMANCE PRESSURE TRANSDUCERS

PIEZORESISTIVE DESIGN WITH HIGH TEMPERATURE PERFORMANCE

100 mV Output 0-10 inH₂0 to 0-5000 psi 25 mb to 345 bar



PX419-015GV. shown actual size. most Ranges!

PX409 Series





mV/V Specifications

Output: 10 mV/V, 100 mV @ 10 Vdc (Ratiometric 5 to 10 Vdc)

SupplyVoltage: 10 Vdc (5 mA @ 10 Vdc)

Input/Output Resistance: 5000Ω ±20% typical

Accuracy(Combined Linearity, Hysteresis and Repeatability): ±0.08% BSL maximum

Compound ranges calibrated only in positive direction **Zero Balance:** ±0.5% FS typical 1% max (1% typical, 2% maximum

for 2.5 psi and below)

Span Setting: ±0.5% FS typical 1% maximum (1% typical, 2% maximum for 2.5 psi and below) Calibrated in vertical direction with fitting down

Operating Temperature Range: -45 to 121°C (-49 to 250°F)

Compensated Temperature:

Ranges >5 psi: -29 to 85°C (-20 to 185°F)

Ranges ≤ 5 psi: -17 to 85°C

(0 to 185°F)

Thermal Effects Zero (Over Compensated Range):

Ranges >5 psi: ±0.5% span Ranges ≤5 psi: ±1.0% span

Thermal Effects Span (Over Compensated Range):

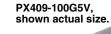
To Order					
RAN	NGE	2 m (6') CABLE	MINI-DIN	TWIST-LOCK	
psi	bar	TERMINATION	TERMINATION	TERMINATION	
mV/V OU	TPUT, GA	GE PRESSURE RAI	NGES		
10 in-H ₂ O	25 mb	PX409-10WGV	PX419-10WGV	PX429-10WGV	
1	69 mb	PX409-001GV	PX419-001GV	PX429-001GV	
2.5	172 mb	PX409-2.5GV	PX419-2.5GV	PX429-2.5GV	
5	345 mb	PX409-005GV	PX419-005GV	PX429-005GV	
15	1.0	PX409-015GV	PX419-015GV	PX429-015GV	
30	2.1	PX409-030GV	PX419-030GV	PX429-030GV	
50	3.4	PX409-050GV	PX419-050GV	PX429-050GV	
100	6.9	PX409-100GV	PX419-100GV	PX429-100GV	
150	10.3	PX409-150GV	PX419-150GV	PX429-150GV	
250	17.2	PX409-250GV	PX419-250GV	PX429-250GV	
500	34.5	PX409-500GV	PX419-500GV	PX429-500GV	
750	51.7	PX409-750GV	PX419-750GV	PX429-750GV	
1000	69	PX409-1.0KGV	PX419-1.0KGV	PX429-1.0KGV	
1500	103	PX409-1.5KGV	PX419-1.5KGV	PX429-1.5KGV	
2500	172	PX409-2.5KGV	PX419-2.5KGV	PX429-2.5KGV	
3500	241	PX409-3.5KGV	PX419-3.5KGV	PX429-3.5KGV	
5000	345	PX409-5.0KGV	PX419-5.0KGV	PX429-5.0KGV	
mV OUTF	PUT, ABSO	DLUTE PRESSURE R	ANGES		
5	345 mb	PX409-005AV	PX419-005AV	PX429-005AV	
15	1.0	PX409-015AV	PX419-015AV	PX429-015AV	
30	2.1	PX409-030AV	PX419-030AV	PX429-030AV	
50	3.4	PX409-050AV	PX419-050AV	PX429-050AV	
100	6.9	PX409-100AV	PX419-100AV	PX429-100AV	
150	10.3	PX409-150AV	PX419-150AV	PX429-150AV	
250	17.2	PX409-250AV	PX419-250AV	PX429-250AV	
500	34.5	PX409-500AV	PX419-500AV	PX429-500AV	
750	51.7	PX409-750AV	PX419-750AV	PX429-750AV	
1000	69	PX409-1.0KAV	PX419-1.0KAV	PX429-1.0KAV	

Ordering Examples: PX409-1.0KGV, mV output, 1000 psi gage pressure range, 2 m (6') cable termination. PX429-015AV, mV output, 15 psi absolute pressure, twist lock termination, PT06F10-6S, mating twist lock connector (sold separately), and DP25B-S, 4-digit meter, system with meter. (See page B-25h for information on meters).

Rometec srl - www.rometec.it - info@rometec.it - Rometec srl - www.rometec.it - info@rometec.it Ranges ≤5 psi: ±1.0% span

HIGH PERFORMANCE PRESSURE TRANSDUCERS PIEZORESISTIVE DESIGN WITH HIGH TEMPERATURE PERFORMANCE

O to 5 Vdc Output 0-10 inH₂0 to 0-5000 psi 25 mb to 0-345 bar



PX409 Series





Stock Delivery for most Ranges!



Amplified Voltage Output **Specifications**

Output:

0 to 5 Vdc Supply Voltage: 10 to 30 Vdc@ 10 mA

0 to 10 Vdc Supply Voltage: 15 to 30 Vdc@10 mA

Accuracy(Combined Linearity, Hysteresis and Repeatability):

±0.08% BSL maximum Compound ranges calibrated only in positive direction"

Zero Balance: ±0.5% FS typical 1% maximum (1% typical, 2% maximum for 2.5 psi and below)

Span Setting: ±0.5% FS typical 1% maximum (1% typical, 2% maximum for 2.5 psi and below). Calibrated in vertical direction with fitting down

Operating Temperature Range: -45 to 115°C (-49 to 240°F)

Compensated Temperature: Ranges >5 psi: -29 to 85°C

(-20 to 185°F)

Ranges ≤5 psi: -17 to 85°C (0 to 185°F)

Thermal Effects Zero (Over Compensated Range):

Ranges >5 psi: ±0.5% span Ranges ≤5 psi: ±1.0% span Thermal Effects Span

(Over Compensated Range): Pange S nei: 10 5% enan

	lo Uro	der
۱	RAN	GE
	mai	L

RANGE		2 m (6') CABLE	MINI-DIN	TWIST-LOCK	
psi	bar	TERMINATION TERMINATION		TERMINATION	
0 to 5 Vo	dc OUTPU1	T, GAGE PRESSURE	RANGES		
10 in-H ₂ O	25 mb	PX409-10WG5V	PX419-10WG5V	PX429-10WG5V	
1	69 mb	PX409-001G5V	PX419-001G5V	PX429-001G5V	
2.5	172 mb	PX409-2.5G5V	PX419-2.5G5V	PX429-2.5G5V	
5	345 mb	PX409-005G5V	PX419-005G5V	PX429-005G5V	
15	1.0	PX409-015G5V	PX419-015G5V	PX429-015G5V	
30	2.1	PX409-030G5V	PX419-030G5V	PX429-030G5V	
50	3.4	PX409-050G5V	PX419-050G5V	PX429-050G5V	
100	6.9	PX409-100G5V	PX419-100G5V	PX429-100G5V	
150	10.3	PX409-150G5V	PX419-150G5V	PX429-150G5V	
250	17.2	PX409-250G5V	PX419-250G5V	PX429-250G5V	
500	34.5	PX409-500G5V	PX419-500G5V	PX429-500G5V	
750	51.7	PX409-750G5V	PX419-750G5V	PX429-750G5V	
1000	69	PX409-1.0KG5V	PX419-1.0KG5V	PX429-1.0KG5V	
1500	103	PX409-1.5KG5V	PX419-1.5KG5V	PX429-1.5KG5V	
2500	172	PX409-2.5KG5V	PX419-2.5KG5V	PX429-2.5KG5V	
3500	241	PX409-3.5KG5V	PX419-3.5KG5V	PX429-3.5KG5V	
5000	345	PX409-5.0KG5V	PX419-5.0KG5V	PX429-5.0KG5V	
0 to 5 Vo	dc OUTPUT	, ABSOLUTE PRES	SURE RANGES		
5	345 mb	PX409-005A5V	PX419-005A5V	PX429-005A5V	
15	1.0	PX409-015A5V	PX419-015A5V	PX429-015A5V	
30	2.1	PX409-030A5V	PX419-030A5V	PX429-030A5V	
50	3.4	PX409-050A5V	PX419-050A5V	PX429-050A5V	
100	6.9	PX409-100A5V	PX419-100A5V	PX429-100A5V	
150	10.3	PX409-150A5V	PX419-150A5V	PX429-150A5V	
250	17.2	PX409-250A5V	PX419-250A5V	PX429-250A5V	
500	34.5	PX409-500A5V	PX419-500A5V	PX429-500A5V	
750	51.7	PX409-750A5V	PX419-750A5V	PX429-750A5V	

Note: To order with 0 to 10 Vdc output, change "5V" to "10V" no extra charge. Ordering Examples: PX409-1.0KG5V, 5 V output, 1000 psi gage pressure range, 2 m (6') cable termination. PX429-015A5V, 5 V output, 15 psi absolute pressure, twist lock termination, PT06F10-6S, mating twist lock connector (sold separately), and

PX419-1.0KA5V

PX429-1.0KA5V

PX409-1.0KA5V

DP25B-E, 4-digit meter, system with meter. (See page B-25h for information on meters).

69

1000

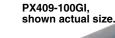
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HIGH PERFORMANCE PRESSURE TRANSMITTERS PIEZORESISTIVE DESIGN WITH HIGH TEMPERATURE PERFORMANCE

4 to 20 mA Output 0-10 inH₂0 to 0-5000 psi 25 mb to 0-345 bar



PX409 Series







4 to 20 mA Specifications

Output: 4 to 20 mA

Supply Voltage: 9 to 30 Vdc maximum loop res $\Omega = (Vs-9)x50$ [9 to 20 Vdc above 105°C (229°F)]

Accuracy(Combined Linearity, Hysteresis and Repeatability):

±0.08% BSL maximum
Compound ranges calibrated only in

compound ranges calibrated positive direction

Zero Balance: ±0.5% FS typical 1% maximum (1% typical, 2% maximum

for 2.5 psi and below)

Span Setting: ±0.5% FS typical 1% maximum (1% typical, 2% max for 2.5 psi and below). Calibrated in vertical direction with fitting down

Operating Temperature Range: -45 to 115°C (-49 to 240°F)

Compensated Temperature:

Ranges >5 psi: -29 to 85° C (-20 to 185° F) Ranges \leq 5 psi: -17 to 85° C (0 to 185° F)

Thermal Effects Zero (Over Compensated Range):

Ranges >5 psi: ±0.5% span
Ranges ≤5 psi: ±1.0% span

Thermal Effects Span (Over Compensated Range):

To Ord	er					
RANGE psi bar		2 m (6') CABLE TERMINATION	MINI-DIN TERMINATION	TWIST-LOCK TERMINATION		
4 to 20 mA OUTPUT, GAGE PRESSURE RANGES						
10 in-H ₂ O	25 mb	PX409-10WGI	PX419-10WGI	PX429-10WGI		
1	69 mb	PX409-001GI	PX419-001GI	PX429-001GI		
2.5	172 mb	PX409-2.5GI	PX419-2.5GI	PX429-2.5GI		
5	345 mb	PX409-005GI	PX419-005GI	PX429-005GI		
15	1.0	PX409-015GI	PX419-015GI	PX429-015GI		
30	2.1	PX409-030GI	PX419-030GI	PX429-030GI		
50	3.4	PX409-050GI	PX419-050GI	PX429-050GI		
100	6.9	PX409-100GI	PX419-100GI	PX429-100GI		
150	10.3	PX409-150GI	PX419-150GI	PX429-150GI		
250	17.2	PX409-250GI	PX419-250GI	PX429-250GI		
500	34.5	PX409-500GI	PX419-500GI	PX429-500GI		
750	51.7	PX409-750GI	PX419-750GI	PX429-750GI		
1000	69	PX409-1.0KGI	PX419-1.0KGI	PX429-1.0KGI		
1500	103	PX409-1.5KGI	PX419-1.5KGI	PX429-1.5KGI		
2500	172	PX409-2.5KGI	PX419-2.5KGI	PX429-2.5KGI		
3500	241	PX409-3.5KGI	PX419-3.5KGI	PX429-3.5KGI		
5000	345	PX409-5.0KGI	PX419-5.0KGI	PX429-5.0KGI		
4 to 20 m	A ABSOLU	TE PRESSURE RA	NGES			
5	345 mb	PX409-005AI	PX419-005AI	PX429-005AI		
15	1.0	PX409-015AI	PX419-015AI	PX429-015AI		
30	2.1	PX409-030AI	PX419-030AI	PX429-030AI		
50	3.4	PX409-050AI	PX419-050AI	PX429-050AI		
100	6.9	PX409-100AI	PX419-100AI	PX429-100AI		
150	10.3	PX409-150AI	PX419-150AI	PX429-150AI		
250	17.2	PX409-250AI	PX419-250AI	PX429-250AI		
500	34.5	PX409-500AI	PX419-500AI	PX429-500AI		
750	51.7	PX409-750AI	PX419-750AI	PX429-750AI		
1000	69	PX409-1.0KAI	PX419-1.0KAI	PX429-1.0KAI		

Ordering Examples: PX409-1.0KGI, 4 to 20 mA output, 1000 psi gage pressure range, 2m (6') cable termination. PX429-015AI, 4 to 20 mA output, 15 psi absolute pressure, twist lock termination, PT06F10-6S, mating twist lock connector (sold separately), and DP25B-E, 4-digit meter, system with meter.

(See B-25h for information on meters).

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PX429-015GI. shown smaller than actual size.

PX409-100GI, shown smaller

+ EXC

PX409 CA COLOR

Black White

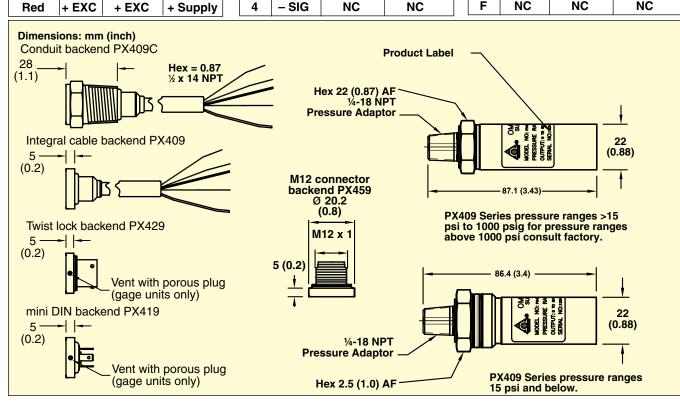
Green Red

than actual size.				
CABLE CONNECTION				
mV 5/10V mA				
– EXC	Common	- Supply		
+ SIG + Output		NC		
- SIG	NC	NC		

PX419-100GI, shown smaller than actual size.

PX419 and PX459 PIN OUT				
PIN	mV	5/10V	mA	
1	+ EXC	+ EXC	+ Supply	
2	– EXC	Common	- Supply	
3	+ SIG	+ Output	NC	
4	- SIG	NC	NC	

P	PX429 TWIST LOCK PINOUT			
PIN	mV	5/10V	mA	
Α	+ EXC	+ EXC	+ Supply	
В	– EXC	Common	- Supply	
С	+ SIG	+ Output	NC	
D	- SIG	NC	NC	
E	NC	NC	NC	
F	NC	NC	NC	



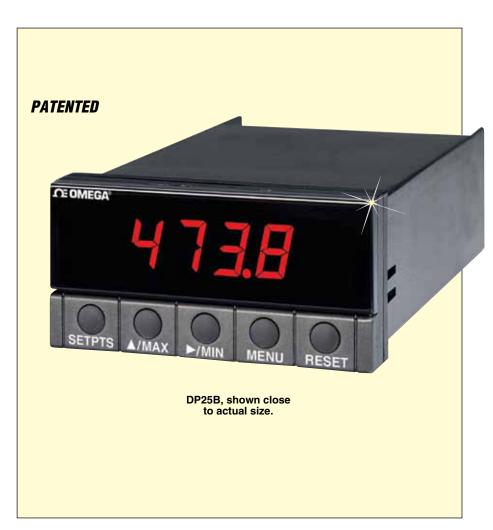
METERS			
MODEL NO.	DESCRIPTION		
DP41-S	6-digit high accuracy (0.005%) strain meter for use with mV/V output models		
DP41-E	6-digit high accuracy (0.005%) process meter for use with voltage and current output models		
DP41-B	6-digit high accuracy (0.005%) universal meter for use with voltage and current output models also accepts thermocouple and RTD inputs		
DP25B-S	4-digit precision strain meter for use with mV/V output models		
DP25B-E	4-digit precision process meter for use with voltage and current output models		
ACCESSORIES			
CX5302	Extra mini-DIN connector for PX419 Series		
PT06F10-6S	Mating twist lock connector for PX429 Series		
PS-4G	Pressure snubber for air/gaseous media		
PS-4E	Pressure snubber for water or light oils		
PS-4D	Pressure snubber for dense liquids (motor oil)		

4-Digit Precision Meter

DP25B



- ✓ mV, V, mA, Strain Gage Inputs
- ✓ Full Process Unit Scaling
- ✓ Built-In Transducer Power



Process and Strain Models

Because they accept a wide range of DC voltage and current inputs, the DP25-B-E strain meters can handle most process and strain applications. Features include easy front-panel scaling to virtually any engineering units, a remote tare function for weighing applications, and a hardware lockout to prevent unauthorized changes in setup. In addition, the DP25B-E meters feature built-in excitation in 4 user-selectable voltages, which makes them compatible with most transducers and transmitters.

To Order	
MODEL NO.	DESCRIPTION
DP25B-E	Voltage/current input with excitation
DP25B-S	mV input in excitation

Comes complete with operator's manual.

Ordering Examples: DP25B-E, voltage/current input meter for use with 0 to 5 V, 0 to 10 V, 4 to 20 mA output PX409 Series transducers. **DP25B-S**, mV input meter for use with mV/V output PX409 Series transducers.

All other ranges

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PX4200 Series

- ✓ Silicon on Sapphire Construction
- High Operating **Temperature**
- ✓ Titanium Wetted Parts
- ✓ 0.25% Accuracy
- Optional Plug-On Display with Available Set-point
- ✓ IP65 Enclosure

OMEGA's PX4200 Series Transmitters bring state-of-the-art Silicon-on-Sapphire (SOS) sensor technology to the industrial arena. SOS construction uses very stable solid state silicon strain gages on a Sapphire carrier which is glass bonded to a titanium diaphragm. This combination provides a very durable transducer which has excellent stability and corrosion resistance over a wide temperature range. A loop powered 3½ digit (-1999 to 1999) plug-on display adds versatility to the PX4200 by providing local display plus an available open collector set-point with 60 mA capability.

SPECIFICATIONS

Excitation: 13 to 36 Vdc with PM1000 18 to 36 Vdc reverse polarity protected Load Driving Capacity: 1150Ω @ 36 Vdc, R maximum = (Vs-13)/20 with PM1000 R maximum = (Vs-18)/20 Output: 4 to 20 mA (2-Wire) with zero and span adjustments

Accuracy: ±0.25% full scale includes linearity, and hysteresis

Repeatability: ±0.1% full scale Long Term Stability (1yr):

±0.2% full scale Media Temperature: -50 to 120°C (-58 to 248°F) Ambient Temperature: -40 to 80°C (-40 to 175°F) Thermal Zero Effect: $<\pm0.016\%$ full scale/°F

Thermal Span Effect: <±0.016% full scale/°F

Humidity: 95% RH non-condensing

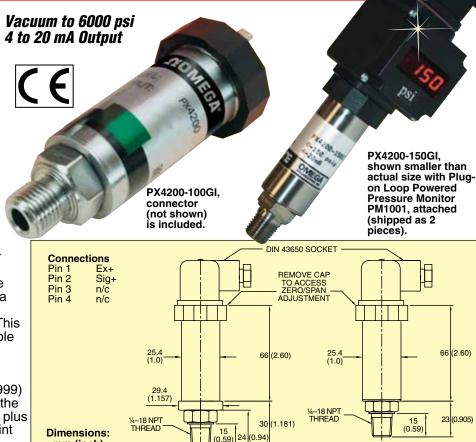
Maximum Overpressure:

200% full scale

Sensor: Silicon on Sapphire Wetted Parts: Titanium

Case Material: Stainless Steel, IP65 Pressure Port: 1/4 NPT male Electrical Connection: DIN 43650 plug mating connector supplied **Response Time:** 10 ms

Weight: 90 g (3.2 oz)



For range 0 to 5 psi

To Order		
RANGE (psig)	MODEL NO.	COMPATIBLE METERS*
30 inHg to 0	PX4200-30VACI	DP41-E, DP25B-E, PM1000
0 inHg to 30	PX4200-30VACRI	DP41-E, DP25B-E, PM1000
0 to 5	PX4200-005GI	DP41-E, DP25B-E, PM1000
0 to 10	PX4200-010GI	DP41-E, DP25B-E, PM1000
0 to 15	PX4200-015GI	DP41-E, DP25B-E, PM1000
0 to 30	PX4200-030GI	DP41-E, DP25B-E, PM1000
0 to 60	PX4200-060GI	DP41-E, DP25B-E, PM1000
0 to 100	PX4200-100GI	DP41-E, DP25B-E, PM1000
0 to 150	PX4200-150GI	DP41-E, DP25B-E, PM1000
0 to 200	PX4200-200GI	DP41-E, DP25B-E, PM1000
0 to 300	PX4200-300GI	DP41-E, DP25B-E, PM1000
0 to 600	PX4200-600GI	DP41-E, DP25B-E, PM1000
0 to 1K	PX4200-1KGI	DP41-E, DP25B-E, PM1000
0 to 1.5K	PX4200-1.5KGI	DP41-E, DP25B-E, PM1000
0 to 3K	PX4200-3KGI	DP41-E, DP25B-E, DP24-E
0 to 6K	PX4200-6KGI	DP41-E, DP25B-E, DP24-E
PRESSURE MO	ONITOR	
	PM1000	Plug-on display
*1/2/1	PM1001	Plug-on display with single set-point

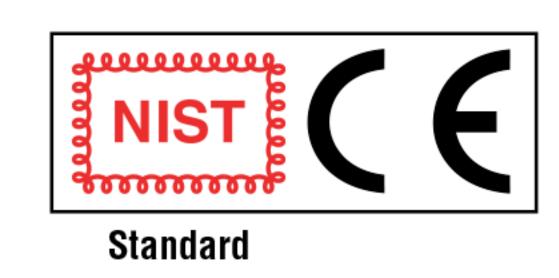
^{*} Visit us online for compatible meters. Comes complete with operator's manual.

mm (inch)

Ordering Example: PX4200-100GI, 0 to 100 psig range with a 4 to 20 mA current output, and PM1001 display with set-point.

mV/V Output 0-15 to 0-300 psi 0-1 to 0-20 bar

PX4600 Series

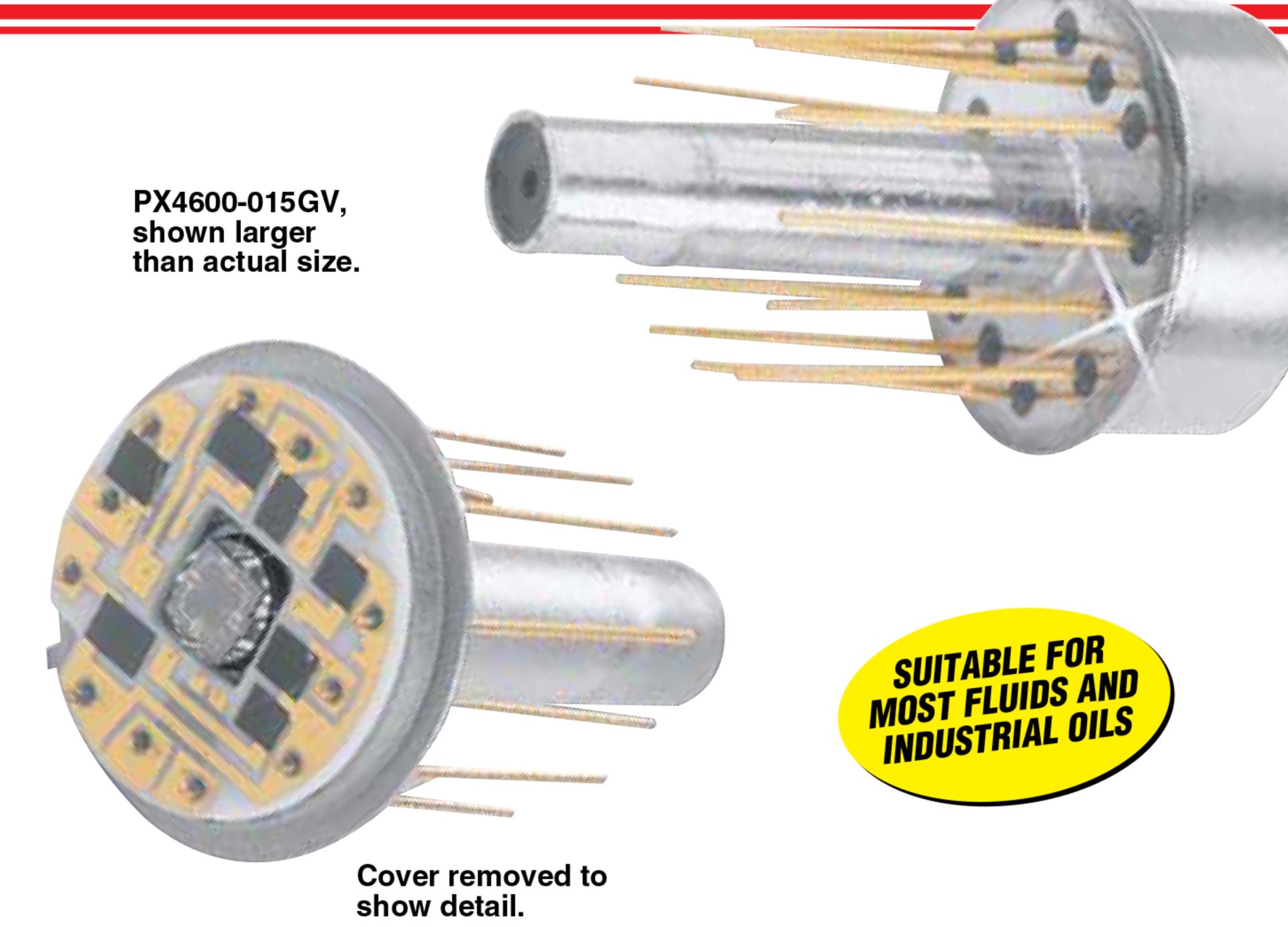


- Small, Lightweight **OEM Package**
- Solid State Media **Isolation Suitable for Use with Most Industrial** Fluids and Oils
- Broad Temperature-Compensated Range of -55 to 121°C Yields High Stability with Changing **Temperatures**
- Electrical Isolation to 100 M Ω Ensures Long-Term Reliability
- Rugged, High Shock and Vibration Design for **Tough OEM Applications**
- Typical Constant Voltage Operation—Easy to Use

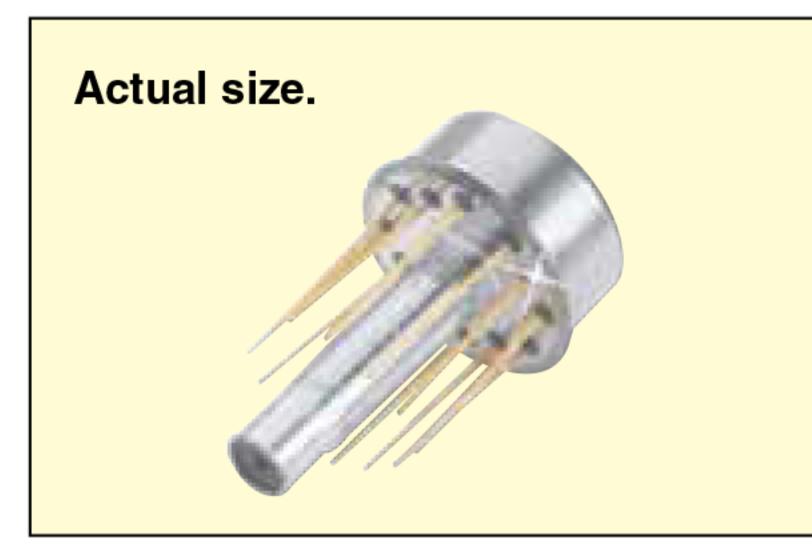
✓ 100,000 Hours MTBF

Built-In Temperature **Sensor Standard**

OMEGA's PX4600 Series consists of accurate, highly reliable pressure transducers suitable for printed circuit board mounting. The small size and light weight of the PX4600 tranducers make them ideal for tough vibration and shock environments. The sensor is a small silicon chip with 4 diffused silicon strain gages. Lasertrimmed resistors provide excellent temperature compensation from -54 to 121°C (-65 to 250°F), and users can adjust zero balance



and span to tight tolerances. The unusually high performance of this transducer comes from a 4-activearm bridge sensor using a micromachined diffused silicon diaphragm and proprietary thin-film media and dielectric isolation barriers. See next page for specifications.



To Order					
RA	NGE	MODEL NO.	COMPATIBLE METERS*		
ABSOLUTE F	PRESSURE				
0 to 15 psi	0 to 1.0 bar	PX4600-015AV	DP41-S, DP25B-S		
0 to 20 psi	0 to 1.4 bar	PX4600-020AV	DP41-S, DP25B-S		
0 to 50 psi	0 to 3.4 bar	PX4600-050AV	DP41-S, DP25B-S		
0 to 100 psi	0 to 6.9 bar	PX4600-100AV	DP41-S, DP25B-S		
0 to 200 psi	0 to 13.8 bar	PX4600-200AV	DP41-S, DP25B-S		
0 to 300 psi	0 to 20.7 bar	PX4600-300AV	DP41-S, DP25B-S		
GAGE PRESS	SURE				
0 to 15 psi	0 to 1.0 bar	PX4600-015GV	DP41-S, DP25B-S		
0 to 20 psi	0 to 1.4 bar	PX4600-020GV	DP41-S, DP25B-S		
0 to 50 psi	0 to 3.4 bar	PX4600-050GV	DP41-S, DP25B-S		
0 to 100 psi	0 to 6.9 bar	PX4600-100GV	DP41-S, DP25B-S		
0 to 200 psi	0 to 13.8 bar	PX4600-200GV	DP41-S, DP25B-S		
0 to 300 psi	0 to 20.7 bar	PX4600-300GV	DP41-S, DP25B-S		

Metric ranges available – consult Engineering.

* Visit us online for compatible meters.

Note: Higher-performance units also available. Consult our custom design group for details. Ordering Examples: PX4600-100GV, 100 psi gage pressure transducer.

PX4600-050AV, 50 psi absolute pressure transducer.

B-25

SOLID STATE ISOLATED TRANSDUCER FOR OEM AND PC BOARD MOUNTING

SPECIFICATIONS

Electrical Excitation: 10 Vdc

Output: 30 mV ±10% @ 10 Vdc Zero Balance: 0 mV ±5% FSO **Input Resistance:** 2000 Ω minimum Output Resistance: 1000 to 1500 Ω Dielectric Isolation Resistance: 100 MΩ min @ 50 Vdc applied between the case or conductive media and the bridge circuit

PERFORMANCE

Accuracy: ±0.25% FSO combined linearity, hysteresis, and repeatability

Sensing Element: 4-active-arm bridge using a micro-machined diffused silicon diaphragm sensor and thin-film media and dielectric isolation barriers. Temperature Sensor:

Output resistance @ 24°C (75°F)

900 to 1500 Ω

Temperature Coefficient:

8% min, 10% max per 55.5°C (100°F)

ENVIRONMENTAL Operating Temperature:

-55 to 150°C (-67 to 300°F)

Compensated Temperature: -55 to 121°C (-67 to 250°F)

Thermal Effects:

Zero: ±0.036% FSO/°C **Span:** ±0.036% FSO/°C

Vibration Sensitivity: At 35 g peak sinusoidal vibration from 10 Hz to 2000 Hz (1/2" D.A.), the output shall not exceed 0.04% FSO/g for 15 psi range, decreasing to 0.005% FSO/g for 100 psi and above.

Natural Frequency: >35 kHz for 100 psi range

Shock: 100 g, 11 ms half sine wave

without damage

MTBF: Typical 100,000 hours @ 55°C

(131°F), fixed-wing aircraft service PRESSURE **Standard Ranges:** 0 to 15, 20, 50,

100, 200, 300 psi gage and absolute pressure **Proof Pressure:**

250% rated pressure, 500 psi max, will not cause changes in performance

beyond specified tolerance **Burst Pressure:**

300% rated pressure, 500 psi max MECHANICAL

Wetted Parts:

Nitride, Pyrex® glass, epoxy and Kovar® Weight: 5 g (0.2 oz) maximum

PX4600 15.2 DIA. (0.60)14 DIA. (0.55)IDENTIFIED **ON THIS** SURFACE (0.28)(0.50) 0.51 ± 0.13 19.1 (0.75) (0.020 ± 0.005) **Functions** Pins NO CONNECTION **4**.8 3.8 〔(0.19)[—] TEMP SENSOR (0.15)4.5 → TEMP SENSOR (0.18)NO CONNECTION **POSITIVE INPUT** NO CONNECTION POSITIVE OUTPUT NO CONNECTION **NEGATIVE OUTPUT** 10 **NEGATIVE INPUT** (0.40) → NO CONNECTION 5.1 NO CONNECTION (0.20)PIN NO'S. SHOWN FOR REF. ONLY 0.76 SCHEMATIC (0.03) 0.76_{-} (0.03)(0.10)(0.20)Dimensions: mm (inch)

0 to -14.7 to 0-3000 psi 0 to -1 to 0-207 bar

PX480A Series

- Excellent Total Accuracy and Interchangeability
- ✓ Gage Pressure, Vacuum, and Compound Ranges Available
- ✓ Rugged, Compact Design
- ✓ RFI/EMI Protection
- ✓ 316L Stainless Steel Wetted Parts

OMEGA's PX480A Series transducers, designed for general industrial and commercial requirements, offer excellent performance in a wide range of applications. They are based on proven micro-machined silicon technology, providing high reliability, long-term stability, and low cost. They are extremely accurate, with less than 0.3% FS reference accuracy. Wetted parts are made of 316L stainless steel for a wide range of media compatibility.

SPECIFICATIONS

Excitation: 10 Vdc (regulated) **Output:** 0 to 50 mV for 0 to 1 psi models, 0 to 100 mV for all other

ranges; bridge output

Load Resistance: $50,000 \Omega$ minimum Accuracy: 0.3% BFSL max (includes linearity, hysteresis and repeatability) Operating Temperature: -40 to 80°C

(-40 to 176°F)

Compensated Temperature: 15 psi and Above: -25 to 75°C

(-13 to 167°F)

6 psi and Below: 0 to 50°C

(32 to 122°F)

Process Temperature: -40 to 100°C

(-40 to 212°F)

Thermal Zero Effect: 2% FS maximum over compensated temperature range

Thermal Span Effect: 2% FS maximum over compensated temperature range



Metric thread adaptors available, visit us online

1-Year Stability: <0.25% FS Proof Pressure: 2x FS **Burst Pressure: 3x FS** Wetted Parts: 316L SS

Vibration: 10 g, 55 to 2000 Hz

Shock: 30 q

Process Connection: 1/2 NPT male

Electrical Connection:

0.4 m (18") 24-gage shielded cable

Dimensions: 11/4 hex:

72 H x 29.7 mm Dia. (2.84 x 1.17")

Weight: 142 g (5 oz)

To Order				
GAGE PRE	SSURE RANG	ES		
psi	bar	MODEL NO.	COMPATIBLE METERS*	
0 to 1	0 to 68.9 mbar	PX480A-001GV	DP25B-S, DP41-S, DPiS Series	
0 to 6	0 to 414 mbar	PX480A-006GV	DP25B-S, DP41-S, DPiS Series	
0 to 15	0 to 1.0	PX480A-015GV	DP25B-S, DP41-S, DPiS Series	
0 to 30	0 to 2.1	PX480A-030GV	DP25B-S, DP41-S, DPiS Series	
0 to 60	0 to 4.1	PX480A-060GV	DP25B-S, DP41-S, DPiS Series	
0 to 100	0 to 6.9	PX480A-100GV	DP25B-S, DP41-S, DPiS Series	
0 to 200	0 to 13.8	PX480A-200GV	DP25B-S, DP41-S, DPiS Series	
0 to 300	0 to 20.7	PX480A-300GV	DP25B-S, DP41-S, DPiS Series	
0 to 500	0 to 34.5	PX480A-500GV	DP25B-S, DP41-S, DPiS Series	
0 to 1000	0 to 69.0	PX480A-1KSV	DP25B-S, DP41-S, DPiS Series	
0 to 2000	0 to 138	PX480A-2KSV	DP25B-S, DP41-S, DPiS Series	
0 to 3000	0 to 207	PX480A-3KSV	DP25B-S, DP41-S, DPiS Series	
VACUUM AND COMPOUND RANGES				
0 to -14.7	0 to -1.0	PX480A-015VACV	DP25B-S, DP41-S, DPiS Series	
-14.7 to 15	-1.0 to 1.0	PX480A-015CV	DP25B-S, DP41-S, DPiS Series	

Accessories

MODEL NO.	DESCRIPTION
PS-8E Pressure snubber for water or light oils	
PS-8D	Pressure snubber for dense liquids or oils
PS-8G	Pressure snubber for gases and steam
	· · · · · · · · · · · · · · · · · · ·

* Visit us online for compatible meters.

Comes complete with operator's manual.

Ordering Example: PX480A-100GV, 0 to 100 psig transducer with 1 to 100 mV output.

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PRESSURE TRANSDUCER ULTRA-HIGH LONG-TERM STABILITY

mV/V Output 0-15 to 0-10,000 psi 0-1 to 0-700 bar

1 bar = 14.5 psi $1 \text{ kg/cm}^2 = 14.22 \text{ psi}$ 1 atmosphere = 14.7 psi = 29.93 $inHg = 760.2 \ mmHg = 1.014 \ bar$

PX5000 Series



- High Shock and **Vibration Resistance**
- ✓ 100,000-Hour MTBF
- ✓ 0.1% Stability for 18 Months
- High Operating Temperature: -54 to 150°C (-65 to 300°F)
- Solid State Reliability
- ✓ 5-Point NIST Calibration Standard

Applications

- Automotive Testing
- ✓ Gas Turbine Engines
- ✓ Flight Testing
- ✓ Aircraft
- ✓ Space Launch Vehicles and Satellites
- ✓ Weapon Systems

OMEGA's PX5000 Series pressure transducers have earned a reputation for high performance, reliability, and stability in tough, real-world applications. These outstanding transducers use OMEGA's advanced sputtered thin-film sensor technology.

MODEL NO. **DESCRIPTION** PTS06A-10-6S-R Mating connector for PX5000 units w/PTIH-10-6P electrical connection



In the sputtering process, gage material is accelerated in a vacuum chamber toward a sensor substrate, molecule by molecule. Each molecule interacts with an energy of several thousand electron volts—sufficient to penetrate a few atomic layers and produce the most stable and reliable bond possible. This unique molecular gage bonding provides superior

long-term calibration stability and reliability, since the sensors have no cement bonds to degrade with time or weaken at higher temperatures.

The PX5000 transducer excels in adverse operating environments. The photo-etched gage pattern makes the sensing element components very small, with short interconnecting leads. This micro-geometry reduces vibration mass, making this transducer much less susceptible to vibration and shock failures and errors.

To Order				
Models with m	V/V Output, MS	33656-4 Fitting and In	tegral Connector	
RANGE MODEL NO. COMPATIBLE ME				
ABSOLUTE PR	ESSURE (Note	: All Ranges Available	e in Absolute Pressure)	
0 to 15 psi	0 to 1.0 bar	PX5000L1-015AV	DP41-S, DP25B-S	
0 to 25 psi	0 to 1.7 bar	PX5000L1-025AV	DP41-S, DP25B-S	
0 to 50 psi	0 to 3.4 bar	PX5000L1-050AV	DP41-S, DP25B-S	
0 to 100 psi	0 to 6.9 bar	PX5000L1-100AV	DP41-S, DP25B-S	
GAGE PRESSU	RE (Note: All Ra	anges Also Available	in Sealed Gage Pressure)	
0 to 15 psi	0 to 1.0 bar	PX5000L1-015GV	DP41-S, DP25B-S	
0 to 25 psi	0 to 1.7 bar	PX5000L1-025GV	DP41-S, DP25B-S	
0 to 50 psi	0 to 3.4 bar	PX5000L1-050GV	DP41-S, DP25B-S	
0 to 100 psi	0 to 6.9 bar	PX5000L1-100GV	DP41-S, DP25B-S	
0 to 250 psi	0 to 17.2 bar	PX5000L1-250GV	DP41-S, DP25B-S	
0 to 500 psi	0 to 34.5 bar	PX5000L1-500GV	DP41-S, DP25B-S	
0 to 1000 psi	0 to 68.9 bar	PX5000L1-1KGV	DP41-S, DP25B-S	
0 to 1500 psi	0 to 103 bar	PX5000L1-1.5KGV	DP41-S, DP25B-S	
0 to 2500 psi	0 to 172 bar	PX5000L1-2.5KGV	DP41-S, DP25B-S	
0 to 3000 psi	0 to 207 bar	PX5000L1-3KGV	DP41-S, DP25B-S	
0 to 5000 psi	0 to 345 bar	PX5000L1-5KGV	DP41-S, DP25B-S	
0 to 10,000 psi	0 to 689 bar	PX5000L1-10KGV	DP41-S, DP25B-S	

Comes complete with 5-point calibration.

* Visit us online for compatible meters.

Metric ranges available - Consult Engineering.

To order absolute pressure, replace "G" in model number with "A" (no extra charge). To order sealed gage pressure, replace "G" in model number with "S" (no extra charge).

Ordering Examples: PX5000L1-100AV, 100 psi absolute pressure transducer, with MS33656-4 male pressure connection and integral electrical connector. PTS06A-10-6S-R, mating connector.

PX5000L1-5KGV, 5000 psi gage pressure transducer, with MS33656-4 male pressure connection and integral electrical connector. PTS06A-10-6S-R. mating connector.

HIGH-PERFORMANCE PRESSURE TRANSDUCER

Rugged all-welded construction ensures a durable and reliable instrument. And this transducer now provides electrostatic discharge (ESD) protection to 15 kV.

Users get state-of-the-art thin-film reliability and performance with the PX5000 pressure transducer. yet it is competitively priced. The result is highest value—premium performance without a premium price. This transducer is also available with an optional 11-point NIST-traceable calibration.

SPECIFICATIONS

Excitation: 10 Vdc

Output: 30 mV typical, 26 mV minimum

Input Resistance:

2500 Ω typical, 800 Ω minimum,

3000 Ω maximum **Output Resistance:**

2500 Ω typical, 800 Ω minimum, 3300 Ω maximum; for 350 Ω bridge, see Custom Configurations

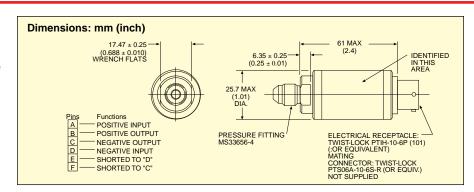
Insulation Resistance: 500MΩ minimum at 50Vdc over compensated

Sensing Element: 4-active-arm bridge using sputter-deposited

thin-film elements

Accuracy: Combined linearity, hysteresis and nonrepeatability: ±0.10% FSO 0 to 15 through 0 to 999 psi; ±0.15% FSO 1000 psi and above

Calibration Stability: ±0.1% for 18 months



Reliability: MTBF = 100,000 hours

Operating Temp Range: -54 to 150°C (-65 to 300°F)

Compensated Temp Range: -54 to 121°C (-65 to 250°F)

Thermal Effects:

Span: ±0.005% FSO/°F **Zero:** ±0.005% FSO/°F

Vibration Sensitivity: At 35 g peak sinusoidal vibration from 10 Hz to 2000 Hz (½" D.A.), the output shall not exceed 0.04% FSO/g for 15 psi range to 0.003% FSO/g for 1000 psi and above

Natural Frequency: 50 kHz for 5000 psi range, decreasing

logarithmically to 5 kHz for 15 psi range Shock: Qualification level of 100 g,

11 ms half sine wave without damage Humidity: Qualified per MIL-STD-810

Electrostatic Discharge (ESD):

Protected to 15 kV

Pressure: 2 times rated pressure or 15,000 psi, whichever is less, will not cause changes in performance beyond the specified tolerances

Burst Pressure: 3 times rated pressure or 20,000 psi, whichever is less, will not cause rupture of the pressure containment cavity

Wetted Parts: 17-4 PH stainless steel

or 15-5 PH stainless steel

Pressure Fitting: %6-20 male per

MS33656-4

Mounting Sensitivity: Less than 0.05% FŠO change in zero when mounted by the pressure port to a manifold at a torque of 15 ft-lb on a solid copper gasket

Mating Connector: PTS06A-10-6S-R

(sold separately)

Weight: 145 g (5 oz) maximum



CUSTOM CONFIGURATIONS

SERIES PX5000*	RESSURE PORT [1]	ELECTRICAL CONNECTION [2]	RANGE [3]	UNITS [4]	О UТР UТ [5]	OPTIONS [6]
L = MS3 * For 350 Ω bric change model to PX5003, no additional charg	dge o de. 1 = PT (o) Ma (so	FIH-10-6P connector r equal). ating connector old separately), order FS06A-10-6S-R	015 psi 025 050 100 250 500 1K 1.5K 2.5K 3K 5K 10K	A,G,S A,G,S A,G,S A,G,S A,G,S A,G,S A,G,S A,G,S A,G,S A,G,S A,G,S	 Select a pres Select electri Select a pres Select pression Sealed ga Select output 	ical connection ssure range ure units – Absolute, Gage ge

Metric ranges available - Consult Engineering.

Ordering Examples: PX5003L1-100AV, 350 Ω bridge, MS33656-4 male pressure port, PTIH-10-6P connector, 100 psi absolute pressure range and mV/V output, \$750. PTS06A-10-6S-R, mating connector (sold separately).

PX5000L1-5KSV-CAL11, 2500 Ω bridge, MS33656-4 male pressure port, PTIH-10-6P connector, 5000 psi sealed gage pressure range, mV/V output and optional 11-point NIST-traceable calibration. **PTS06A-10-6S-R**, mating connector (sold separately).

PX5000L1-1KGV, 2500 Ω bridge, MS33656-4 male pressure port, PTIH-10-6P connector, 1000 psi gage pressure range, mV/V output and standard 5-point NIST-traceable calibration. **PTS06A-10-6S-R**. mating connector (sold separately).

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High 0.08% Accuracy

Gage Pressure: 10 inH₂0 to 3500 psi (25 mb to 245 bar)

Sealed Gage: 0 to 100 psi to 0 to 3500 psi (0 to 7 bar to 0 to 245 bar)

Absolute Pressure: 5 to 1000 psi (350 mb to 70 bar) Compound Gage: ±10 inH₂0 to ±15 psi (±25 mbar to ±1 bar)

Vacuum (Negative Gage): 0 to -10 inH₂O to 0 to -15 psi (0 to -25 mbar to 0 to -1 bar) Barometric Ranges: 0. 16 or 26 inHg to 32 inHg (0. 550 or 880 hPa to 1100 hPa)

Please Note: Not for export, USA and Canada only





✓ High 0.08% Accuracy with NIST Traceable **Calibration Certificate**

- ✓ 4 to 20 mA Output with FM Intrinsically Safe Rating
- ✓ Solid State Sensor for **Long Term Stability**
- ✓ 316L SS Wetted Parts and Welded Stainless **Steel Construction**
- Shock and Vibration Rated
- Ruggedized with Secondary **Containment System**
- Demountable Electrical Termination
- ✓ User Accessible Trim Pots on Most Models

APPLICATIONS

- ✓ Process Control
- Hvdraulic and **Pneumatic Systems**
- ✓ Natural Gas Compressors
- Chemical Refineries
- Oil and Gas
- **✓** Pipeline Measurements
- Hydrogen (316L SS Wetted Parts Standard)
- ✓ Power Generation

PX539-IS Series with DIN connector. Mating connector not included. PX519-IS Series with mini-DIN connector. Mating connector not included.





The PX509 intrinsically safe transducers are rugged all stainless steel transducers specifically designed to meet the requirements for use in hazardous locations for all classes and zones.

Features include welded stainless steel construction, user accessible potentiometers, and a demountable electrical termination end. They are designed for rugged industrial applications, and have high shock and vibration ratings and excellent long term stability.

A precision micromachined silicon sensor is at the core, and provides a very stable reading with exceptional high accuracy of 0.08% and a broad compensated range of -29 to 75°C (-20 to 167°F) on most ranges.

Modular construction allows for fast delivery of most configurations and fittings including agency approved models, plus, customized models also can be delivered quickly to suit your exact needs. Models with ½ NPT conduit fitting (PX509C) do not have a demountable termination and trim pots are an extra cost option.

Intrinsically safe models are available in many ranges and configurations.

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INTRINSICALLY SAFE TRANSMITTERS

AGENCY APPROVALS

TYPE	AGENCY	APPROVAL LISTINGS	
Intrinsically Safe (US and Canada)	FM	Hazardous (Classified) Location, Rated Intrinsically Safe, Securite Intrins Class I, II, III, Division 1 Gr A, B, C, D, E, F, G Class I, Zone 0 Aex ia IIc (US), Class I, Zone 0 Ex ia IIC (Canada), T4, Ta = -40 to 75°C	
Non-Incendive	FM Hazardous (Classified) Location, Rated Non-Incendive Class I Division 2 Groups A, B, C, D (US and Canada) T4, Ta = -40 to 75°C, Conduit electrical connections only		

NOTE: Please refer to **www.omega.com/approvals/** for downloadable copies of FM Approvals Certificate of Compliance and installation control drawings.

SPECIFICATIONS

Compensated Temperature & Thermal Effects:

Compensated Temperature 10 inH₂O to 5 psi: -17 to 75°C 15 to 3500 psi: -29 to 75°C Zero Temperature Shift

10 inH₂O to 5 psi: ±1.0% span 15 to 3500 psi: ±0.5% span Span Temperature Shift

10 inH₂O to 5 psi: ±1.0% span **15** to **3500** psi: ±0.5% span

Over Pressure
10 inH₂O: 10 times
1 psi: 6 times

2.5 to 500 psi: 4 times **750 to 3500:** 3 times

Containment

10 inH₂O to 5 psi: To 1000 psi 15 to 750 psi: To 3000 psi 1000 psi: To 4000 psi 1500 psi: To 6000 psi 2500 psi: To 8000 psi 3500 psi: To 11,000 psi

Absolute/Barometric Pressure Ranges

naliyes

Over Pressure

5 psia: 6 times span **15 to 1000 psia:** 4 times span **1500 to 5000 psia:** 7250 psia maximum

Containment

All Ranges: To 1000 psi

Gauge/Vacuum/Compound Pressure Ranges

Over Pressure

10 inH₂O: 10 times span 1 psi: 6 times span

2.5 to 1000 psi: 4 times span **1500 to 5000 psi:** 7250 psi

maximum

Minimum Resistance Between Transducer Body and Any Wire: $100M\Omega$ @ 50 Vdc

Accuracy (Combined Linearity, Hysteresis and Repeatability):

±0.08% BSL maximum (other accuracies available)
For conduit (C and CW) zero and span set ±0.5% full scale typical ±1% maximum or set ±1% full scale typical ±2% maximum ranges 2.5 psi and below

Pressure Cycles: 1 million typical Long Term Stability (1-Year): ±0.1% full scale typical

Excitation Voltage: 10 to 28 Vdc,

output 4 to 20 mA

Operating Temperature: -40 to 75°C (-40 to 167°F)

Wetted Material: 316L stainless steel Bandwidth: DC to 1kHz (typical)

Sensor: Oil filled silicon

EMC Compliant: Up to 30 m (98.4')

of cable

EN 61326-1:2006

EN 61326-2-3:2006 Industrial levels Shock: 50 g, 11 msec half sine shock

Vibration: ±20 g

Response Time: <1 msec

RoHS Compliant

Standard Pressure Port:

1/4-18 NPT male

Metric Pressure Port: G1/4B male most popular (other ports available, please contact the Factory)

Weight: 315 g (11 oz) typical depending upon configuration

PX509 also available in industrial models with 5 or 10 Vdc or 4 to 20 mA outputs.

ELECTRICAL TERMINATIONS





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Gage, Sealed Gage and Absolute Pressure Ranges 4 to 20 mA Output

To Order	To Order						
RANGE/RE	SOLUTION						
STANDARD	METRIC	STANDARD MODELS	METRIC MODELS				
GAGE PF	RESSURE	SEE TABLE ON PREVIOUS PAGE	GE FOR AGENCY APPROVALS				
0 to 10 inH ₂ O	0 to 25 mb	PX5[**]-10WGC2IS	PXM5[**]-025HGC2IS				
0 to 1 psig	0 to 70 mb	PX5[**]-001GC2IS	PXM5[**]-070HGC2IS				
0 to 2.5	0 to 170 mb	PX5[**]-2.5GC2IS	PXM5[**]-170HGC2IS				
0 to 5	0 to 350 mb	PX5[**]-005GC2IS	PXM5[**]-350HGC2IS				
0 to 15	0 to 1 bar	PX5[**]-015GC2IS	PXM5[**]-001BGC2IS				
0 to 30	0 to 2	PX5[**]-030GC2IS	PXM5[**]-002BGC2IS				
0 to 50	0 to 3.5	PX5[**]-050GC2IS	PXM5[**]-3.5BGC2IS				
0 to 100	0 to 7	PX5[**]-100GC2IS	PXM5[**]-007BGC2IS				
0 to 150	0 to 10	PX5[**]-150GC2IS	PXM5[**]-010BGC2IS				
0 to 250	0 to 17.5	PX5[**]-250GC2IS	PXM5[**]-17.5BGC2IS				
0 to 500	0 to 35	PX5[**]-500GC2IS	PXM5[**]-035BGC2IS				
0 to 750	0 to 50	PX5[**]-750GC2IS	PXM5[**]-050BGC2IS				
0 to 1000	0 to 70	PX5[**]-1.0KGC2IS	PXM5[**]-070BGC2IS				
0 to 1500	0 to 100	PX5[**]-1.5KGC2IS	PXM5[**]-100BGC2IS				
0 to 2500	0 to 175	PX5[**]-2.5KGC2IS	PXM5[**]-175BGC2IS				
0 to 3500	0 to 245	PX5[**]-3.5KGC2IS	PXM5[**]-245BGC2IS				
	D GAGE	SEE TABLE ON PREVIOUS PAGE					
0 to 100 psi	0 to 7 bar	PX5[**]-100SGC2IS	PXM5[**]-7BSGC2IS				
0 to 150	0 to 10	PX5[**]-150SGC2IS	PXM5[**]-10BSGC2IS				
0 to 250	0 to 17.5	PX5[**]-250SGC2IS	PXM5[**]-17.5BSGC2IS				
0 to 500	0 to 35	PX5[**]-500SGC2IS	PXM5[**]-35BSGC2IS				
0 to 750	0 to 50	PX5[**]-750SGC2IS	PXM5[**]-50BSGC2IS				
0 to 1000	0 to 70	PX5[**]-1.0KSGC2IS	PXM5[**]-70BSGC2IS				
0 to 1500	0 to 100	PX5[**]-1.5KSGC2IS	PXM5[**]-100BSGC2IS				
0 to 2500	0 to 175	PX5[**]-2.5KSGC2IS	PXM5[**]-175BSGC2IS				
0 to 3500	0 to 245	PX5[**]-3.5KSGC2IS	PXM5[**]-245BSGC2IS				
	SSURE MODELS	SEE TABLE ON PREVIOUS PAG					
0 to 5 psi	0 to 350 mb	PX5[**]-005AC2IS	PXM5[**]-350HAC2IS				
0 to 15	0 to 1 bar	PX5[**]-015AC2IS	PXM5[**]-001BAC2IS				
0 to 30	0 to 2	PX5[**]-030AC2IS	PXM5[**]-002BAC2IS				
0 to 50	0 to 3.5	PX5[**]-050AC2IS	PXM5[**]-3.5BAC2IS				
0 to 100	0 to 7	PX5[**]-100AC2IS	PXM5[**]-007BAC2IS				
0 to 150	0 to 10	PX5[**]-150AC2IS	PXM5[**]-010BAC2IS				
0 to 250	0 to 17.5	PX5[**]-250AC2IS	PXM5[**]-17.5BAC2IS				
0 to 500	0 to 35	PX5[**]-500AC2IS	PXM5[**]-035BAC2IS				
0 to 750	0 to 50	PX5[**]-750AC2IS	PXM5[**]-050BAC2IS				
0 to 1000	0 to 70	PX5[**]-1.0KAC2IS	PXM5[**]-070BAC2IS				
0 to 1500	0 to 100	PX5[**]-1.5KAC2IS	PXM5[**]-100BAC2IS				
0 to 2500	0 to 175	PX5[**]-2.5KAC2IS	PXM5[**]-175BAC2IS				
0 to 3500	0 to 245	PX5[**]-3.5KAC2IS	PXM5[**]-245BAC2IS				

All models come complete with 5-point NIST traceable calibration.

Any cable or connector must meet the requirements of the environment where it is being installed. The safety engineer should specify the cables and connectors.

[**] SELECT	MODEL NO.	ELECTRICAL TERMINATION	ENVIRONMENT RATING
09	PX509	Cable with flying leads, 2 m (6')	IP65
09C	PX509C	Cable with ½ NPT conduit connector (no trim pots, not demountable)	IP65
09CP	PX509CP	Cable with ½ NPT conduit connector and side accessible trim pots	IP65
09CW	PX509CW	Submersible cable with ½ NPT conduit connector (no trim pots, not demountable) 3 m (10')	IP65
09CWP	PX509CWP	Submersible cable with ½ NPT conduit connector and side accessible trim pots (not demountable) 3 m (10')	IP65
19	PX519	mini-DIN connector (mating connector not included)	IP65
29	PX529	Twist-lock 6 pin connector	IP65
39	PX539	DIN connector (mating connector not included)	IP65
49	PX549	Glass to metal sealed solder pins	IP65
59	PX559	M12 connector, M12 cables sold separately	IP65

Ordering Examples: PX509C-100GC2IS, 2 m (6') cable termination with ½ NPT conduit fitting, 100 psig range, 4 to 20 mA output with

FM intrinsically safe rating.

PX509CP-1.0KGC2IS, 2 m (6') cable termination with ½ NPT conduit fitting with side accessible trim pots, 1000 psig range, 4 to 20 mA output with FM intrinsically safe rating.

PX519-005AC2IS, mini-DIN connector (mating connector not included), 0 to 5 psi absolute range, 4 to 20 mA output with FM intrinsically

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ELECTRICAL TERMINATIONS







Compound Gage, Vacuum and Barometric Pressure Ranges 4 to 20 mA Output

To Order			
RAN	IGE		
STANDARD	METRIC	STANDARD MODELS	METRIC MODELS
COMPOUND GAGE	RANGES	SEE TABLE FOR A	AGENCY APPROVALS
±10 inH ₂ O	±25 mbar	PX5[**]-10WCGBC2IS	PXM5[**]-025HCGBC2IS
±1 psig	±70 mbar	PX5[**]-001CGBC2IS	PXM5[**]-070HCGBC2IS
±2	±170 mbar	PX5[**]-2.5CGBC2IS	PXM5[**]-170HCGBC2IS
±5	±350 mbar	PX5[**]-005CGBC2IS	PXM5[**]-350HCGBC2IS
±15	±1 bar	PX5[**]-015CGBC2IS	PXM5[**]-001BCGBC2IS
VACUUM RANGES (N	NEGATIVE GAGE)	SEE TABLE FOR A	AGENCY APPROVALS
	*		
0 to -10 inH₂O	0 to -25 mbar	PX5[**]-10WVC2IS	PXM5[**]-025HVC2IS
0 to -10 inH₂O 0 to -1 psig	•	PX5[**]-10WVC2IS PX5[**]-001VC2IS	PXM5[**]-025HVC2IS PXM5[**]-070HVC2IS
	0 to -25 mbar		
0 to -1 psig	0 to -25 mbar 0 to -70 mbar	PX5[**]-001VC2IS	PXM5[**]-070HVC2IS
0 to -1 psig 0 to -2.5	0 to -25 mbar 0 to -70 mbar 0 to -170 mbar	PX5[**]-001VC2IS PX5[**]-2.5VC2IS	PXM5[**]-070HVC2IS PXM5[**]-170HVC2IS
0 to -1 psig 0 to -2.5 0 to -5	0 to -25 mbar 0 to -70 mbar 0 to -170 mbar 0 to -350 mbar 0 to -1 bar	PX5[**]-001VC2IS PX5[**]-2.5VC2IS PX5[**]-005VC2IS PX5[**]-015VC2IS	PXM5[**]-070HVC2IS PXM5[**]-170HVC2IS PXM5[**]-350HVC2IS
0 to -1 psig 0 to -2.5 0 to -5 0 to -15	0 to -25 mbar 0 to -70 mbar 0 to -170 mbar 0 to -350 mbar 0 to -1 bar	PX5[**]-001VC2IS PX5[**]-2.5VC2IS PX5[**]-005VC2IS PX5[**]-015VC2IS	PXM5[**]-070HVC2IS PXM5[**]-170HVC2IS PXM5[**]-350HVC2IS PXM5[**]-001BVC2IS
0 to -1 psig 0 to -2.5 0 to -5 0 to -15 BAROMETRIC RANGES (A	0 to -25 mbar 0 to -70 mbar 0 to -170 mbar 0 to -350 mbar 0 to -1 bar BSOLUTE PRESSURE)	PX5[**]-001VC2IS PX5[**]-2.5VC2IS PX5[**]-005VC2IS PX5[**]-015VC2IS SEE TABLE FOR A	PXM5[**]-070HVC2IS PXM5[**]-170HVC2IS PXM5[**]-350HVC2IS PXM5[**]-001BVC2IS AGENCY APPROVALS

All models come complete with 5-point NIST traceable calibration.

Any cable or connector must meet the requirements of the environment where it is being installed. The safety engineer should specify the cables and connectors.

[**] SELECT	MODEL NO.	ELECTRICAL TERMINATION	ENVIRONMENT RATING
09	PX509	Cable with flying leads, 2 m (6')	IP65
09C	PX509C	Cable with ½ NPT conduit connector and specify model PX509C (no trim pots, not demountable)	IP65
09CP	PX509CP	Cable with ½ NPT conduit connector and side accessible trim pots specify model PX509CP	IP65
09CW	PX509CW	Submersible cable with ½ NPT conduit connector (no trim pots, not demountable) 3 m (10')	IP65
09CWP	PX509CWP	Submersible cable with ½ NPT conduit connector and side accessible trim pots (not demountable) 3 m (10')	IP65
19	PX519	Mini-DIN connector (mating connector not included)	IP65
29	PX529	Twist-lock 6 pin connector	IP65
39	PX539	DIN connector (mating connector not included)	IP65
49	PX549	Glass to metal sealed solder pins	IP65
59	PX559	M12 connector, M12 cables sold separately	IP65

Custom configurations also available, visit us online for details.

Ordering Examples: PX509C-16BC2IS, 2 m (6') cable termination with ½ NPT conduit fitting,

16 to 32 inHg barometric range, 4 to 20 mA output with FM intrinsically safe rating.

PX529C-2.5VC2IS, twist-lock 6 pin connector, 0 to -2.5 psi vacuum range, 4 to 20 mA output with FM intrinsically safe rating.

PX549-16HBC2IS, glass to metal sealed solder pins, 550 to 1100 hPa barometric range, 4 to 20 mA output with FM intrinsically safe rating.

PX559-001CGBC2IS, M12 connector termination, ±1 psi compound gage range, 12 mA ±8 mA output

(zero =12 mA) with FM intrinsically safe rating.

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Transmitters

Imperial and Metric Models Unique Dual ½ and ¼ NPT Fitting

4 to 20 mA, 0 to 5 Vdc or 0 to 10 Vdc Outputs 0-10 to 0-30,000 psi-Imperial Models 0-0.7 to 0-400 bar-Metric Models

1 bar = 14.5 psi $1 \text{ kg/cm}^2 = 14.22 \text{ psi}$ 1 atmosphere = 14.7 psi = 29.93 inHg = 760.2 mmHg = 1.014 bar







- Rugged Thick Film Sensing Element
- ✓ All Stainless Steel Construction
- ✓ Sealed SS Case for Harsh Environments

OMEGA's PX51 Series consists of high-accuracy, low-cost pressure transmitters. Their sealed, all stainless steel construction makes them suitable for the harshest environments. They are available in gage, absolute, or sealed gage models. Ten feet of PVC insulated shielded cable is standard, or a twist-lock style connector is also available. A wide selection of amplified voltage and current outputs makes the PX51 a truly versatile family of industrial transmitters.

Specifications Output/Excitation Voltages

METRIC

PXM51MC6-006G, shown smaller than actual size.

4 to 20 mA or 0 to 5 Vdc Outputs: 10 to 32 Vdc max 0 to 10 Vdc Outputs: 16 to 32 Vdc max

Accuracy (Combined Linearity, Hysteresis and Repeatability):

Over pressure: 1.5x Range

With Potentiometers Zero and Span

Without Potentiometers Zero and Span Set: ±5% Zero typical, ±1% Span max

Cable style.

Mating DIN connector.

Compensated Temperature Range:

mini-DIN

style.

16 to 71°C (60 to 160°F) Zero Shift: 0.005%FS/°F

Span Shift: 0.003% Reading/°F

Operating Temperature: -40 to 104°C

(-40 to 220°F)

Wetted Material: 17-4 Stainless Steel EMC Compliant: Up to 30 m (98.4') of

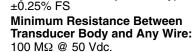
cable

EN 61326-1:2006

EN 61326-2-3:2006 Industrial levels

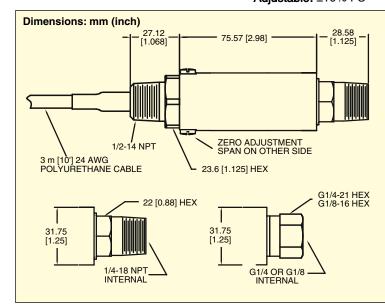
Electrical Connection (for PTIH-10-6P twist-lock connector): PT06F10-6S

(sold separately)



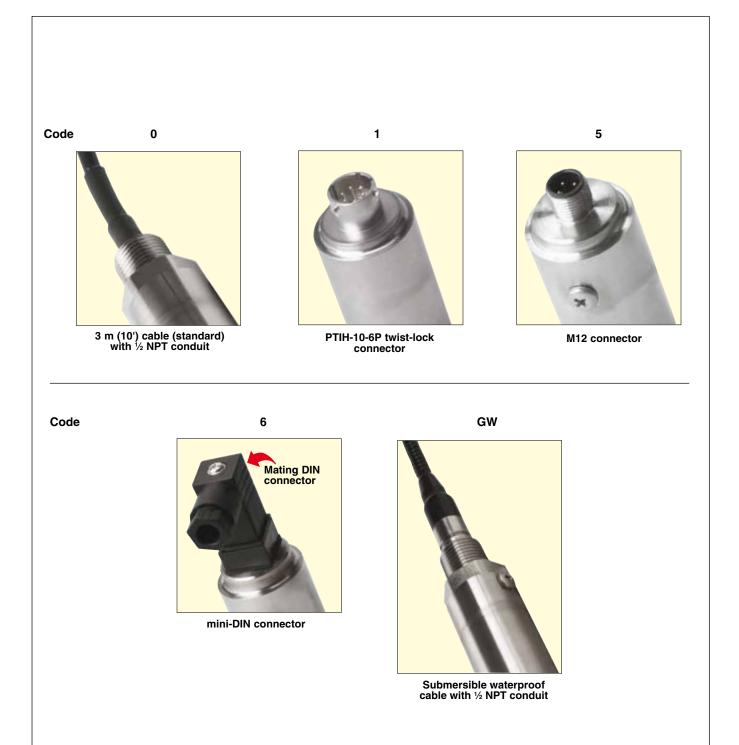
Burst pressure: 3x Range

Adjustable: ±10% FS



WIRING CODES		4 to 20 mA	0 to 5 Vdc	0 to 10 Vdc
	BLACK	SUPPLY (-)	SUPPLY (-)	SUPPLY (-)
04515	WHITE	_	OUTPUT (+)	OUTPUT (+)
CABLE	GREEN	CASE	OUTPUT (-)	OUTPUT (-)
	RED	SUPPLY (+)	SUPPLY (+)	SUPPLY (+)
	PIN A	SUPPLY (+)	SUPPLY (+)	SUPPLY (+)
	PIN B	SUPPLY (-)	SUPPLY (-)	SUPPLY (-)
TWIST-LOCK ELECTRICAL	PIN C	NO CONNECT	OUTPUT (+)	OUTPUT (+)
PINOUT	PIN D	NO CONNECT	OUTPUT (-)	OUTPUT (-)
1	PIN E	CASE	NO CONNECT	NO CONNECT
	PIN F	NO CONNECT	NO CONNECT	NO CONNECT
	PIN 1	SUPPLY (+)	SUPPLY (+)	SUPPLY (+)
M12 ELECTRICAL	PIN 2	SUPPLY (-)	SUPPLY (-)	SUPPLY (-)
PINOUT	PIN 3	NO CONNECT	OUTPUT (+)	OUTPUT (+)
	PIN 4	CASE	OUTPUT (-)	OUTPUT (-)
	PIN 1	SUPPLY (+)	SUPPLY (+)	SUPPLY (+)
MINI-DIN ELECTRICAL	PIN 2	SUPPLY (-)	SUPPLY (-)	SUPPLY (-)
PINOUT	PIN 3	NO CONNECT	OUTPUT (+)	OUTPUT (+)
	PIN 4	CASE	OUTPUT (-)	OUTPUT (-)

PLEASE NOTE OUTPUT (-) IS TIED TO SUPPLY (-) FOR 0 to 5 Vdc AND 0 to 10 Vdc VERSIONS.



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Transmitter



IMPERIAL CUSTOM CONFIGURATIONS

SERIES P	SSURE ORT 1]	ELECTRICAL CONNECTION [2] —	RANGE (psi) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
C = ¼-18 NPT- D = ¼-18 NPT- T = Dual ½-14 ¼-18 NPT K = %-20 UNF J = ½-20 UNF S = ¼ HP Tube (≥10,000 p	F NPT exterr nternal -F -M Fitting	nal	010 015 020 025 030 050 075 100 200 300	A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG	I = 4 to 20 mA output 5V = 0 to 5 Vdc output 10V = 0 to 10 Vdc output	(No Suffix) = Potentiometers Standard NP = No Potentiometers
0 = 1 =	½ NPT	') pigtail with conduit)-6P twist-lock 6-pin	500 750 1K	A,G,SG A,G,SG A,G,SG	† = Supplied with ty	pe "S" pressure port; ¼" HP
5 = 6 = GW =	Submer		1.5K 2K 2.5K 3K 3.5K 5K 7.5K 10K [†] 15K [†] 20K [†] 30K [†]	A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG	 Select a pres Select electr Select a pres 	rical connection ssure range ure units - Absolute, Gage age it

Ordering Examples: PX51T1-100GI, 100 psi gage pressure transmitter with dual ½-14 NPT external ½-18 NPT internal and PTIH-10-6P connector, 4 to 20 mA output. PT06F10-6S, mating connector (sold separately). PX51T0-1KSGI, 1000 psi sealed pressure transmitter with dual ½-14 NPT external ¼-18 NPT internal and 3 m (10') cable, 4 to 20 mA output.

METRIC CUSTOM CONFIGURATIONS

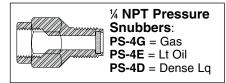
PXM51 SERIES PORT CONNECTION [1] [2] — MA = G%B Male MB = G%B Female MC = G%B Male MD = G%B Female 0 = 3 m (10') cable (std) with 1/2 NPT conduit 1 = PTIH-10-6P twist-lock 6 pin	RANGE (BAR) [3] 0.7 001 1.60 2.50 004 006 010 016	UNITS [4] A,G,SG	OUTPUT [5] I = 4 to 20 mA output 5V = 0 to 5 Vdc output 10V = 0 to 10 Vdc output	OPTIONS [6] (No Suffix) = Potentiometers Standard NP = No Potentiometers
connector 5 = M12 connector 6 = mini-DIN connector GW = Submersible waterproof cable with ½ NPT conduit	025 040 060 100 160 250 400	A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG	 Select a press Select electrica Select a press 	al connection ure range e units - Absolute, Gage e

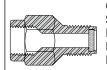
Ordering Examples: PXM51MB0-010SGI, 10 bar sealed gage pressure transmitter with G1/8B Female pressure port and 3 m (10') cable, 4 to 20 mA output. **PXM51MD1-010AI**, 10 bar absolute pressure transducer with G1/2B Female pressure port and **PTIH-10-6P** connector, 4 to 20 mA output.

IMPERIAL MODELS

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G¼ Pressure Snubbers:

PS-4G-MG = Gas PS-4E-MG = Lt Oil

PS-4D-MG = Dense Liquid

Range Model No. **Compatible Meters** Absolute Pressure (All Ranges Available in Absolute Pressure) PX51T[*]-015A[**] DP41-E, DP25B-E, DP24-E 0 to 15 psi 0 to 1.0 bar 0 to 25 psi 0 to 1.4 bar PX51T[*]-025A[* DP41-E, DP25B-E, DP24-E 0 to 30 psi 0 to 2.1 bar PX51T[*]-030A[* DP41-E, DP25B-E, DP24-E 0 to 50 psi 0 to 3.4 bar PX51T[*]-050A[**] DP41-E, DP25B-E, DP24-E Gage Pressure (All Ranges Also Available in Sealed Gage Pressure) 0 to 10 psi 0 to 0.69 bar PX51T[*]-010G[**] DP41-E, DP25B-E, DP24-E 0 to 15 psi 0 to 1.0 bar PX51T[*]-015G[* DP41-E, DP25B-E, DP24-E 0 to 1.4 bar PX51T[*]-020G[**] 0 to 20 psi DP41-E, DP25B-E, DP24-E 0 to 2.1 bar PX51T[*]-030G[**] DP41-E, DP25B-E, DP24-E 0 to 30 psi 0 to 3.4 bar DP41-E, DP25B-E, DP24-E 0 to 50 psi PX51T[*]-050G[**] 0 to 5.2 bar PX51T[*]-075G[**] DP41-E, DP25B-E, DP24-E 0 to 75 psi DP41-E, DP25B-E, DP24-E 0 to 100 psi 0 to 6.9 bar PX51T[*]-100G[**] 0 to 200 psi 0 to 13.8 bar PX51T[*]-200G[**] DP41-E, DP25B-E, DP24-E 0 to 300 psi 0 to 20.7 bar PX51T[*]-300G[**] DP41-E, DP25B-E, DP24-E 0 to 500 psi 0 to 34.5 bar PX51T[*]-500G[**] DP41-E, DP25B-E, DP24-E 0 to 750 psi 0 to 51.7 bar PX51T[*]-750G[**] DP41-E, DP25B-E, DP24-E 0 to 1000 psi DP41-E. DP25B-E. DP24-E 0 to 68.9 bar PX51T[*]-1KG[**] 0 to 1500 psi 0 to 103 bar PX51T[*]-1.5KG[**] DP41-E, DP25B-E, DP24-E 0 to 2000 psi 0 to 138 bar PX51T[*]-2KG[**] DP41-E, DP25B-E, DP24-E 0 to 3500 psi 0 to 241 bar PX51T[*]-3.5KG[**] DP41-E, DP25B-E, DP24-E PX51T[*]-5KG[**] DP41-E, DP25B-E, DP24-E 0 to 5000 psi 0 to 345 bar DP41-E, DP25B-E, DP24-E 0 to 7500 psi 0 to 517 bar PX51T[*]-7.5KG[**] PX51S[*]-10KG[* DP41-E, DP25B-E†, DP24-E† 0 to 10,000 psi 0 to 689 bar 0 to 15,000 psi 0 to 1034 bar PX51S[*]-15KG[** DP41-E, DP25B-E[†], DP24-E[†] PX51S[*]-20KG[**] DP41-E, DP25B-E†, DP24-E† 0 to 20,000 psi 0 to 1379 bar 0 to 30,000 psi 0 to 2068 bar PX51S[*]-30KG[* DP41-E, DP25B-E†, DP24-E†

All models come complete with 5-point NIST traceable calibration.

[*] = Insert "0" for 3 m (10') cable, "1" for twist-lock 6 pin connector, "5" for M12 connector, "6" for mini-DIN connector, or "GW" for submersible waterproof cable.

[**] = Insert "I" for 4 to 20 mA output, "5V" for 0 to 5 Vdc output or "10V" for 0 to 10 Vdc output. Note: To order Standard configurations including Potentiometers, no suffix required. For "No Potentiometers", add "NP" suffix.

† 4-digit meter, counts in increments of 10.

Ordering Examples: PX51S0-010G5V 10 psi gage transmitter, 0 to 5 Vdc output with 3 m (10') cable. PX51T0-5KGI, 5000 psi gage pressure transmitter, 4 to 20 mA output with 3 m (10') cable.

METRIC MODELS

To Order	To Order						
Models with G¼ Male Pressure Connection, Cable or Connector							
	Range	Model No.	Compatible Meters				
Gage Pressure							
0 to 0.7 bar	0 to 10 psi	PXM51MC[*]-0.7G[**]	iSeries, DP41-E, DP25B-E				
0 to 1 bar	0 to 15 psi	PXM51MC[*]-001G[**]	iSeries, DP41-E, DP25B-E				
0 to 1.60 bar	0 to 23 psi	PXM51MC[*]-1.60G[**]	iSeries, DP41-E, DP25B-E				
0 to 2.50 bar	0 to 36 psi	PXM51MC[*]-2.50G[**]	iSeries, DP41-E, DP25B-E				
0 to 4 bar	0 to 58 psi	PXM51MC[*]-004G[**]	iSeries, DP41-E, DP25B-E				
0 to 6 bar	0 to 87 psi	PXM51MC[*]-006G[**]	iSeries, DP41-E, DP25B-E				
0 to 10 bar	0 to 145 psi	PXM51MC[*]-010G[**]	iSeries, DP41-E, DP25B-E				
0 to 16 bar	0 to 232 psi	PXM51MC[*]-016G[**]	iSeries, DP41-E, DP25B-E				
0 to 25 bar	0 to 363 psi	PXM51MC[*]-025G[**]	iSeries, DP41-E, DP25B-E				
0 to 40 bar	0 to 580 psi	PXM51MC[*]-040G[**]	iSeries, DP41-E, DP25B-E				
0 to 60 bar	0 to 870 psi	PXM51MC[*]-060G[**]	iSeries, DP41-E, DP25B-E				
0 to 100 bar	0 to 1450 psi	PXM51MC[*]-100G[**]	iSeries, DP41-E, DP25B-E				
0 to 160 bar	0 to 2321 psi	PXM51MC[*]-160G[**]	iSeries, DP41-E, DP25B-E				
0 to 250 bar	0 to 3626 psi	PXM51MC[*]-250G[**]	iSeries, DP41-E, DP25B-E				
0 to 400 bar	0 to 5802 psi	PXM51MC[*]-400G[**]	iSeries, DP41-E, DP25B-E				

All models come complete with 5-point NIST traceable calibration. Pressure port for all metric models is G1/4B male.

[*] = Insert "0" for 3 m (10') cable, "1" for twist-lock 6 pin connector, "5" for M12 connector, "6" for mini-DIN connector or "GW" for submersible waterproof cable.

To order sealed gage pressure models, replace "G" in model number with "SG" (no extra charge).

To order absolute pressure models, replace "G" in model number with "A" (no extra charge).

[**] = Insert "I" for 4 to 20 mA output, "5V" for 0 to 5 Vdc output or "10V" for 0 to 10 Vdc output (no extra charge).

Note: To order Metric configurations including Potentiometers, no suffix required. For "No Potentiometers", add "NP" suffix.

Ordering Examples: PXM51MC6-25GI, 25 bar gage pressure transducer with G ¼ male thread, mini-DIN connector and 4 to 20 mA output. PXM51MD0-1.60Al. 1.6 bar absolute pressure transducer with G ¼ internal thread. 3 m (10') cable and 4 to 20 mA output.

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Transmitters

Imperial and Metric Models

Unique Dual ½ and ¼ NPT Fitting 4 to 20 mA, 0 to 5 Vdc or 0 to 10 Vdc Outputs 0-10 to 0-30,000 psi-Imperial Models 0-0.7 to 0-400 bar-Metric Models

1 bar = 14.5 psi $1 \text{ kg/cm}^2 = 14.22 \text{ psi}$ 1 atmosphere = 14.7 psi = 29.93 $inHg = 760.2 \ mmHg = 1.014 \ bar$

PX51T0-100G, shown smaller than actual size.





- Rugged Thick Film Sensing Element
- ✓ All Stainless Steel Construction
- ✓ Sealed SS Case for Harsh Environments

OMEGA's PX51 Series consists of high-accuracy, low-cost pressure transmitters. Their sealed, all stainless steel construction makes them suitable for the harshest environments. They are available in gage, absolute, or sealed gage models. Ten feet of PVC insulated shielded cable is standard, or a twist-lock style connector is also available. A wide selection of amplified voltage and current outputs makes the PX51 a truly versatile family of industrial

Specifications Output/Excitation Voltages

4 to 20 mA or 0 to 5 Vdc Outputs: 10 to 32 Vdc max

METRIC

PXM51MC6-006G, shown smaller than actual size.

0 to 10 Vdc Outputs: 16 to 32 Vdc max

Accuracy (Combined Linearity, Hysteresis and Repeatability): ±0.25% FS

Minimum Resistance Between Transducer Body and Any Wire: 100 MΩ @ 50 Vdc

With Potentiometers Zero and Span

Adjustable: ±10% FS

Without Potentiometers Zero and Span Set: ±5.0% typical. ±1% max

Compensated Temperature Range:

mini-DIN

style.

Cable style.

Mating DIN connector.

16 to 71°C (60 to 160°F) Zero Shift: 0.005%FS/°F

Span Shift: 0.003% Reading/°F

Proof Pressure: 150% Burst Pressure: 300%

Operating Temperature: -40 to 104°C

(-40 to 220°F)

Wetted Material: 17-4 Stainless Steel EMC Compliant: Up to 30 m (98.4') of

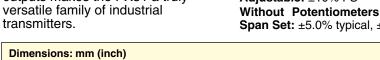
cable

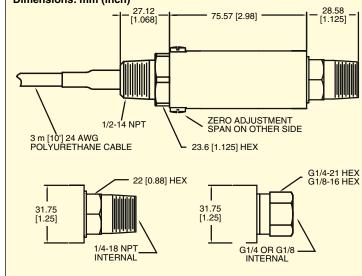
EN 61326-1:2006

EN 61326-2-3:2006 Industrial levels

Electrical Connection (for PTIH-10-6P twist-lock connector): PT06F10-6S

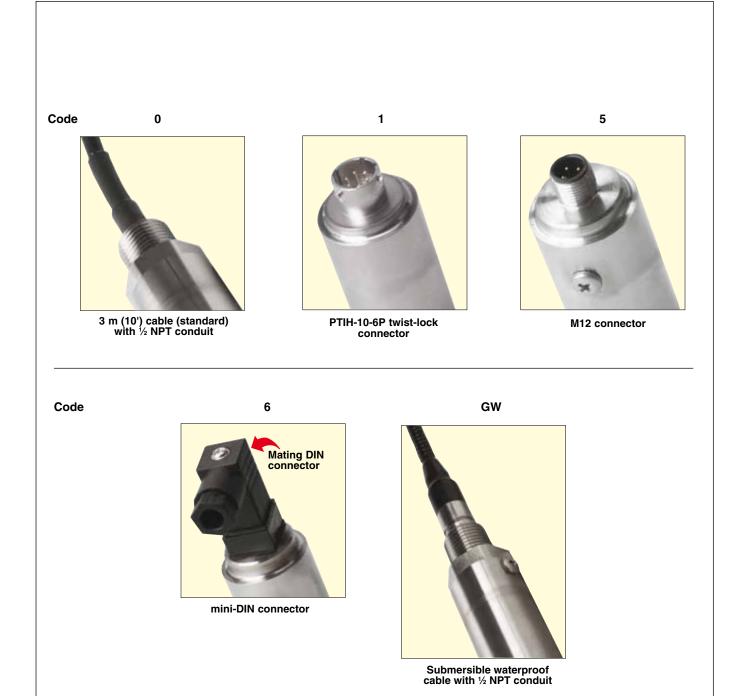
(sold separately)





WIRING CODES		4 to 20 mA	0 to 5 Vdc	0 to 10 Vdc
	BLACK	SUPPLY (-)	SUPPLY (-)	SUPPLY (-)
	WHITE	_	OUTPUT (+)	OUTPUT (+)
CABLE	GREEN	CASE	OUTPUT (-)	OUTPUT (-)
	RED	SUPPLY (+)	SUPPLY (+)	SUPPLY (+)
	PIN A	SUPPLY (+)	SUPPLY (+)	SUPPLY (+)
	PIN B	SUPPLY (-)	SUPPLY (-)	SUPPLY (-)
TWIST-LOCK ELECTRICAL	PIN C	NO CONNECT	OUTPUT (+)	OUTPUT (+)
PINOUT	PIN D	NO CONNECT	OUTPUT (-)	OUTPUT (-)
	PIN E	CASE	NO CONNECT	NO CONNECT
	PIN F	NO CONNECT	NO CONNECT	NO CONNECT
	PIN 1	SUPPLY (+)	SUPPLY (+)	SUPPLY (+)
M12 ELECTRICAL	PIN 2	SUPPLY (-)	SUPPLY (-)	SUPPLY (-)
PINOUT	PIN 3	NO CONNECT	OUTPUT (+)	OUTPUT (+)
	PIN 4	CASE	OUTPUT (-)	OUTPUT (-)
	PIN 1	SUPPLY (+)	SUPPLY (+)	SUPPLY (+)
MINI-DIN ELECTRICAL	PIN 2	SUPPLY (-)	SUPPLY (-)	SUPPLY (-)
PINOUT	PIN 3	NO CONNECT	OUTPUT (+)	OUTPUT (+)
	PIN 4	CASE	OUTPUT (-)	OUTPUT (-)

PLEASE NOTE OUTPUT (-) IS TIED TO SUPPLY (-) FOR 0 to 5 Vdc AND 0 to 10 Vdc VERSIONS.



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Transmitter



IMPERIAL CUSTOM CONFIGURATIONS

SERIES P	SSURE ORT 1]	ELECTRICAL CONNECTION [2] —	RANGE (psi) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
C = ¼-18 NPT- D = ¼-18 NPT- T = Dual ½-14 ¼-18 NPT K = %-20 UNF J = ½-20 UNF S = ¼ HP Tube (≥10,000 p	F NPT exterr nternal -F -M Fitting	nal	010 015 020 025 030 050 075 100 200 300	A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG	I = 4 to 20 mA output 5V = 0 to 5 Vdc output 10V = 0 to 10 Vdc output	(No Suffix) = Potentiometers Standard NP = No Potentiometers
0 = 1 =	½ NPT	') pigtail with conduit)-6P twist-lock 6-pin	500 750 1K	A,G,SG A,G,SG A,G,SG	† = Supplied with ty	pe "S" pressure port; ¼" HP
5 = 6 = GW =	Submer		1.5K 2K 2.5K 3K 3.5K 5K 7.5K 10K [†] 15K [†] 20K [†] 30K [†]	A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG	 Select a pres Select electr Select a pres 	rical connection ssure range ure units - Absolute, Gage age it

Ordering Examples: PX51T1-100GI, 100 psi gage pressure transmitter with dual ½-14 NPT external ½-18 NPT internal and PTIH-10-6P connector, 4 to 20 mA output. PT06F10-6S, mating connector (sold separately). PX51T0-1KSGI, 1000 psi sealed pressure transmitter with dual ½-14 NPT external ¼-18 NPT internal and 3 m (10') cable, 4 to 20 mA output.

METRIC CUSTOM CONFIGURATIONS

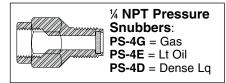
PXM51 SERIES PORT CONNECTION [1] [2] — MA = G%B Male MB = G%B Female MC = G%B Male MD = G%B Female 0 = 3 m (10') cable (std) with 1/2 NPT conduit 1 = PTIH-10-6P twist-lock 6 pin	RANGE (BAR) [3] 0.7 001 1.60 2.50 004 006 010 016	UNITS [4] A,G,SG	OUTPUT [5] I = 4 to 20 mA output 5V = 0 to 5 Vdc output 10V = 0 to 10 Vdc output	OPTIONS [6] (No Suffix) = Potentiometers Standard NP = No Potentiometers
connector 5 = M12 connector 6 = mini-DIN connector GW = Submersible waterproof cable with ½ NPT conduit	025 040 060 100 160 250 400	A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG A,G,SG	 Select a press Select electrica Select a press 	al connection ure range e units - Absolute, Gage e

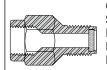
Ordering Examples: PXM51MB0-010SGI, 10 bar sealed gage pressure transmitter with G1/8B Female pressure port and 3 m (10') cable, 4 to 20 mA output. **PXM51MD1-010AI**, 10 bar absolute pressure transducer with G1/2B Female pressure port and **PTIH-10-6P** connector, 4 to 20 mA output.

IMPERIAL MODELS

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G¼ Pressure Snubbers:

PS-4G-MG = Gas PS-4E-MG = Lt Oil

PS-4D-MG = Dense Liquid

Range Model No. **Compatible Meters** Absolute Pressure (All Ranges Available in Absolute Pressure) PX51T[*]-015A[**] DP41-E, DP25B-E, DP24-E 0 to 15 psi 0 to 1.0 bar 0 to 25 psi 0 to 1.4 bar PX51T[*]-025A[* DP41-E, DP25B-E, DP24-E 0 to 30 psi 0 to 2.1 bar PX51T[*]-030A[* DP41-E, DP25B-E, DP24-E 0 to 50 psi 0 to 3.4 bar PX51T[*]-050A[**] DP41-E, DP25B-E, DP24-E Gage Pressure (All Ranges Also Available in Sealed Gage Pressure) 0 to 10 psi 0 to 0.69 bar PX51T[*]-010G[**] DP41-E, DP25B-E, DP24-E 0 to 15 psi 0 to 1.0 bar PX51T[*]-015G[* DP41-E, DP25B-E, DP24-E 0 to 1.4 bar PX51T[*]-020G[**] 0 to 20 psi DP41-E, DP25B-E, DP24-E 0 to 2.1 bar PX51T[*]-030G[**] DP41-E, DP25B-E, DP24-E 0 to 30 psi 0 to 3.4 bar DP41-E, DP25B-E, DP24-E 0 to 50 psi PX51T[*]-050G[**] 0 to 5.2 bar PX51T[*]-075G[**] DP41-E, DP25B-E, DP24-E 0 to 75 psi DP41-E, DP25B-E, DP24-E 0 to 100 psi 0 to 6.9 bar PX51T[*]-100G[**] 0 to 200 psi 0 to 13.8 bar PX51T[*]-200G[**] DP41-E, DP25B-E, DP24-E 0 to 300 psi 0 to 20.7 bar PX51T[*]-300G[**] DP41-E, DP25B-E, DP24-E 0 to 500 psi 0 to 34.5 bar PX51T[*]-500G[**] DP41-E, DP25B-E, DP24-E 0 to 750 psi 0 to 51.7 bar PX51T[*]-750G[**] DP41-E, DP25B-E, DP24-E 0 to 1000 psi DP41-E. DP25B-E. DP24-E 0 to 68.9 bar PX51T[*]-1KG[**] 0 to 1500 psi 0 to 103 bar PX51T[*]-1.5KG[**] DP41-E, DP25B-E, DP24-E 0 to 2000 psi 0 to 138 bar PX51T[*]-2KG[**] DP41-E, DP25B-E, DP24-E 0 to 3500 psi 0 to 241 bar PX51T[*]-3.5KG[**] DP41-E, DP25B-E, DP24-E PX51T[*]-5KG[**] DP41-E, DP25B-E, DP24-E 0 to 5000 psi 0 to 345 bar DP41-E, DP25B-E, DP24-E 0 to 7500 psi 0 to 517 bar PX51T[*]-7.5KG[**] PX51S[*]-10KG[* DP41-E, DP25B-E†, DP24-E† 0 to 10,000 psi 0 to 689 bar 0 to 15,000 psi 0 to 1034 bar PX51S[*]-15KG[** DP41-E, DP25B-E[†], DP24-E[†] PX51S[*]-20KG[**] DP41-E, DP25B-E†, DP24-E† 0 to 20,000 psi 0 to 1379 bar 0 to 30,000 psi 0 to 2068 bar PX51S[*]-30KG[* DP41-E, DP25B-E†, DP24-E†

All models come complete with 5-point NIST traceable calibration.

[*] = Insert "0" for 3 m (10') cable, "1" for twist-lock 6 pin connector, "5" for M12 connector, "6" for mini-DIN connector, or "GW" for submersible waterproof cable.

[**] = Insert "I" for 4 to 20 mA output, "5V" for 0 to 5 Vdc output or "10V" for 0 to 10 Vdc output. Note: To order Standard configurations including Potentiometers, no suffix required. For "No Potentiometers", add "NP" suffix.

† 4-digit meter, counts in increments of 10.

Ordering Examples: PX51S0-010G5V 10 psi gage transmitter, 0 to 5 Vdc output with 3 m (10') cable. PX51T0-5KGI, 5000 psi gage pressure transmitter, 4 to 20 mA output with 3 m (10') cable.

METRIC MODELS

To Order							
Models with G1/4 Male	Models with G¼ Male Pressure Connection, Cable or Connector						
	Range Model No. Compatible Meters						
Gage Pressure							
0 to 0.7 bar	0 to 10 psi	PXM51MC[*]-0.7G[**]	iSeries, DP41-E, DP25B-E				
0 to 1 bar	0 to 15 psi	PXM51MC[*]-001G[**]	iSeries, DP41-E, DP25B-E				
0 to 1.60 bar	0 to 23 psi	PXM51MC[*]-1.60G[**]	iSeries, DP41-E, DP25B-E				
0 to 2.50 bar	0 to 36 psi	PXM51MC[*]-2.50G[**]	iSeries, DP41-E, DP25B-E				
0 to 4 bar	0 to 58 psi	PXM51MC[*]-004G[**]	iSeries, DP41-E, DP25B-E				
0 to 6 bar	0 to 87 psi	PXM51MC[*]-006G[**]	iSeries, DP41-E, DP25B-E				
0 to 10 bar	0 to 145 psi	PXM51MC[*]-010G[**]	iSeries, DP41-E, DP25B-E				
0 to 16 bar	0 to 232 psi	PXM51MC[*]-016G[**]	iSeries, DP41-E, DP25B-E				
0 to 25 bar	0 to 363 psi	PXM51MC[*]-025G[**]	iSeries, DP41-E, DP25B-E				
0 to 40 bar	0 to 580 psi	PXM51MC[*]-040G[**]	iSeries, DP41-E, DP25B-E				
0 to 60 bar	0 to 870 psi	PXM51MC[*]-060G[**]	iSeries, DP41-E, DP25B-E				
0 to 100 bar	0 to 1450 psi	PXM51MC[*]-100G[**]	iSeries, DP41-E, DP25B-E				
0 to 160 bar	0 to 2321 psi	PXM51MC[*]-160G[**]	iSeries, DP41-E, DP25B-E				
0 to 250 bar	0 to 3626 psi	PXM51MC[*]-250G[**]	iSeries, DP41-E, DP25B-E				
0 to 400 bar	0 to 5802 psi	PXM51MC[*]-400G[**]	iSeries, DP41-E, DP25B-E				

All models come complete with 5-point NIST traceable calibration. Pressure port for all metric models is G1/4B male.

[*] = Insert "0" for 3 m (10') cable, "1" for twist-lock 6 pin connector, "5" for M12 connector, "6" for mini-DIN connector or "GW" for submersible waterproof cable.

To order sealed gage pressure models, replace "G" in model number with "SG" (no extra charge).

To order absolute pressure models, replace "G" in model number with "A" (no extra charge).

[**] = Insert "I" for 4 to 20 mA output, "5V" for 0 to 5 Vdc output or "10V" for 0 to 10 Vdc output (no extra charge).

Note: To order Metric configurations including Potentiometers, no suffix required. For "No Potentiometers", add "NP" suffix.

Ordering Examples: PXM51MC6-25GI, 25 bar gage pressure transducer with G ¼ male thread, mini-DIN connector and 4 to 20 mA output. PXM51MD0-1.60Al. 1.6 bar absolute pressure transducer with G ¼ internal thread. 3 m (10') cable and 4 to 20 mA output.

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PRESSURE TRANSMITTER LCD WITH BACKLIGHT

Ranges 0-50 psi to 0-7500 psi (0-3.4 to 0-517 bar) Compound ranges to Vac to 50 psi (Vac to 3.4 bar) 4 to 20 mA Output

PX5100 Series



- Compact Size
- ✓ NEMA 4X (IP65) **Environmental Rating**
- ✓ Backlit LCD for Easy Reading
- ✓ Display Rotates in 90° Increments to Fit Location
- ✓ All Stainless Steel **Wetted Parts**
- Quick Ranging with Internal Push-Buttons
- ✓ Scale to Display in Any **Engineering Units**
- ✓ MIN/MAX and HOLD **Functions**
- ✓ Program Lock Function
- ✓ High Life Cycles
- ✓ Key Lock Function

Applications

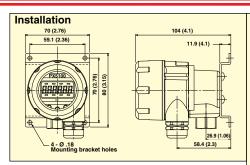
- **✓** Pump Control
- Hydraulic Control **Systems**
- Compressor Control
- Process Automation
- Water and Tank Level



The OMEGA PX5100 is a compact, industrial, rangeable, pressure transmitter ideal for monitoring pressures in process automation, hydraulic systems, compressors, pumps and in tank level applications where consistent, reliable pressure measurement is essential. The PX5100 has rugged field-proven thin film sensor technology and can monitor a wide variety of wet or dry media. Available in ranges from 0-50 to 0-7500 psi and compound ranges up to -15/50 psi, this versatile transmitter includes min, max to record high and low pressure events and hold feature. A rugged aluminum NEMA 4X (IP65) enclosure would be 90 psi.

PX5100

measures only 2.65" in diameter and incorporates a backlit LCD display for local reading. The output is a two-wire configurable 4 to 20 mA signal that can be adjusted to re-range the transmitter or "tare" unwanted fluid head preloads. Rangeability for zero and span are from -10% to 110% FS URL (Upper Range Limit). This means a 100 psi transducer can have the zero set between -10 psi to FS 110 psi. For example zero could be set for 30 psi and maximum 90 psi so the output would be 4 mA at 30 psi, midpoint 12 mA would be 60 psi and 20 mA



SPECIFICATIONS

Output: 4 to 20 mAdc (2-wire) Supply Voltage: 12 to 32 Vdc Vmin=12V+(0.022Ax loop res) Insulation Resistance: 50 Vdc

 $(>100 M \Omega)$

Rangeability/Adjustments: Zero: -10 to 110% FS Span: -10 to 110% FS

Accuracy: ±0.25% FS URL(Upper Range Limit) @23°C includes linearity,

hysteresis and repeatability

Note: Accuracy and output resolution based upon FS (URL) value.

Stability: ±0.25% FS/year

Response Time: 30 ms (adjustable)
Output Resolution: 0.1% FS (URL)
Display: 4 digit, 10 mm LCD with Red

backlight

Display Accuracy: ±0.25% FS (URL)

+ 1 digit

Storage Temperature: -20 to 70°C

(-4 to 158°F)

Operating Temperature: -10 to 60°C

(14 to 140°F)

Compensated Temperature: -10 to 60°C (14 to 140°F) Temperature Effects (Over Comp

Range): ±0.02% FS (URL)/°C (from 23°C reference)

Overpressure (FS):

≤1500 psi Proof: 200% Burst: 500% 3000, 5000 psi: Proof: 200% Burst: 500% 7500 psi

Proof: 120% Burst: 150% Vibration: 5 g 150 Hz Shock: 10 g 16 ms

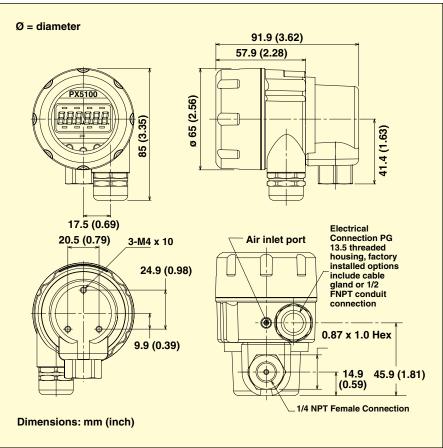
Pressure Connection: ¼ NPT female Electrical Connection: ½ NPT female

conduit fitting

Environmental Rating: NEMA 4X (IP65)

Media: Fluids and gasses compatible with 316SS and 17-4 pH SS

Weight: Approx 454 g (1 lb)



To Order		
	DJUSTABLE -10% to +110% FS (I	JRL)
	IGE (URL)	
psi	bar	MODEL NO.
COMPOUND GAGE		
-Vac to +15	-Vac to +1	PX5100-015CGI
-Vac to +30	-Vac to +2.1	PX5100-030CGI
-Vac to +50	-Vac to +3.4	PX5100-050CGI
GAGE PRESSURE		
0 to 50	0 to 3.4	PX5100-050GI
0 to 100	0 to 6.9	PX5100-100GI
0 to 150	0 to 10	PX5100-150GI
0 to 300	0 to 21	PX5100-300GI
0 to 500	0 to 34	PX5100-500GI
0 to 1000	0 to 69	PX5100-1KGI
0 to 1500	0 to 103	PX5100-1.5KGI
0 to 3000	0 to 207	PX5100-3KGI
0 to 5000	0 to 345	PX5100-5KGI
0 to 7500	0 to 517	PX5100-7.5KGI
	SUFFIX TO MODEL NO.)	
	int NIST traceable calibration, mus	t specify at time of order
-X6B Oxyg	gen cleaning	

Comes complete with mounting bracket and operator's manual.

Ordering Example: PX5100-100GI, 100 psig rangeable transmitter, 4 to 20 mA output. PX5100-015CGI, vacuum to 15 psi compound gage rangeable transmitter, 4 to 20 mA output (4 mA = vacuum, 20 mA = + 15 psi).

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PRESSURE TRANSDUCER STANDARD AND METRIC UNITS

mV/V Output 0-15 to 0-10,000 psi-Standard Models 0-1 to 0-600 bar Metric Models



PX5500/PXM5500 Series



- ✓ High Accuracy: 0.1%
- Solid State Reliability
- Sputtered Strain Gage Design
- High Shock and **Vibration Resistance**
- **✓** Low Drift
- ✓ 5-Point NIST Calibration Standard

Applications

- ✓ Testing
- ✓ R&D/Engineering Test Laboratories
- Functional Test Systems
- Production Testing
- ✓ Product Quality Assurance
- ✓ Flight Testing
- Gas Turbine and Engine Test Standards
- Ground Support Equipment
- Hydraulic Systems
- Custody Transfer Measurements

OMEGA's PX5500/PXM5500 Series transducers provide high performance in demanding industrial and research applications in which accuracy, reliability, and price are important. These transducers have a 10-year MTBF rate and are stable to 0.1% of FSO over an 18-month period. This translates into less downtime, fewer test reruns, more time between calibrations, and high confidence in pressure data. When recalibration is impossible, relying

on the high stability of a PX5500/ PXM5500 Series transducers may be the only cost-effective way to obtain pressure data over the long term. OMEGA's thin-film technology makes this premium performance possible. The strain gages and associated structures are sputter-deposited directly onto the pressure sensing element, thus eliminating the need for adhesives. The resulting molecular bond between the sensing element and the strain gages ensures virtually no shifting, drifting, or "creep" in the performance of the transducer. The micro-geometry design of the PX5500/PXM5500 sensing elements results in a very small, low-mass sensor that reduces effects of mechanical vibration and shock. The PX5500/PXM5500 gives you accuracy, reliability, and stability at competitive prices.

SPECIFICATIONS mV/V MODELS

Excitation: 10 Vdc

Output FSO: 30 mV typ, 26 mV min Input Resistance: 2500 Ω typical,

 800Ω min, 3000Ω max.

For 350 Ω bridge models see Custom Configurations.

Output Resistance: 2500 Ω typical, 800 Ω minimum, 3300 Ω maximum

Insulation Resistance: $500M\Omega$ at 50Vdc over the compensated range

Sensing Element: 4-active-arm bridge using sputter-deposited thin-film elements

Accuracy: Combined linearity, hysteresis and nonrepeatability: ±0.10% FSO (BFSL) <1000 psi ±0.15% FSO 1000 psi and above

Calibration Stability: ±0.1% for 18 months

Vibration Sensitivity: At 35 g peak sinusoidal vibration from 10 Hz to 2000 Hz (1/2" D.A.), the output shall not exceed 0.04% FSO/g for 15 psi range, decreasing to 0.003% FSO/g for 1000 psi and above

Natural Frequency: 5 kHz for 15 psi, increasing logarithmically to 50 kHz for 5000 psi

Shock: Qualification level of 100 g. 11 ms half sine wave without damage

Electrostatic Discharge (ESD):

Protected to 15 kV

Operating Temp Range: -54 to 150°C (-65 to 300°F)

Compensated Temp Range:

-18 to 82°C (0 to 180°F)

Thermal Effects:

Span: ±0.0025% FSO/°F Zero: ±0.0025% FSO/°F

Proof Pressure:

2 times rated pressure or 15,000 psi, whichever is less, will not cause changes in performance beyond the specified tolerance

Burst Pressure: 3 times rated pressure or 20,000 psi, whichever is less, will not cause rupture of the pressure containment cavity

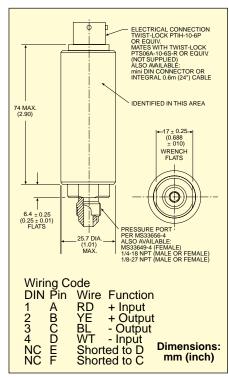
Wetted Parts:

17-4 PH or 15-5 PH SS

Electrical Connection: PTIH-10-6P standard - see custom configurations Pressure Port: See drawing below

Mating Connector:

PTS06A10-6S-R (sold separately) Weight: 200 g (7 oz) maximum



HIGH-PERFORMANCE THIN FILM PRESSURE TRANSDUCER

STANDARD CUSTOM CONFIGURATIONS

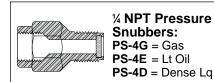
PX5500* P	PRESSURE	ELECTRICAL CONNECTION	RANGE	UNITS	OUTPUT	OPTIONS
OLIVIEO	[1]	[2]	[3]	[4]	[5]	[6]
B = ½-2 C = ½-2 D = ½-2 L = MS	1 = PT (or cor sep PT	ale	015 psi 025 050 100 250 500 1K 1.5K 2.5K 3K 5K	A, G,	Base Price PX5500 V = mV/V 5T = 0 to 5V I = 4 to 20mA To order a custor 1. Select a pressur 2. Select electrical 3. Select a pressur Gage or Sealed 5. Select output 6. Select options a	re port connection re range units – Absolute.

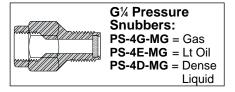
Comes complete with 5-point calibration.

Ordering Examples: PX5503A1-015AV, 350 Ω bridge, $\frac{1}{8}$ -27 NPT male pressure port, PTIH-10-6P style connector, 15 psi absolute pressure range and mV/V output.

PTS06A-10-6S-R, mating connector (sold separately). **PX5500M1-10KG5T**, MS33649-4 female pressure port, PTIH-10-6P style connector, 10,000 psi gage pressure range and 0 to 5 Vdc output. **PTS06A-10-6S-R**, mating connector (sold separately).

PX5500L0-015Al-25FT, MS33656-4 male pressure port, 8 m (25') lead wire, 15 psi absolute pressure range and 4 to 20 mA output.







METRIC PSI RANGE CUSTOM CONFIGURATIONS

PXM5500 PRESSURE CONNECTION [1] [2] MA = G%B Male cost MB = G%B Female no charge MC = G%B Male cost MD = G%B Female no charge MC = G%B Female no charge O = 0.6 m (2') cable (std)	RANGE (BAR) [3] 1.0 1.6 4.0 6.0 10 16	UNITS [4] A, G,	OUTPUT [5] I = 4 to 20 mA Base price PXM5500	OPTIONS [6] CAL11 = 11-point calibration certificate ()m = Optional cable length in meters
add cost per/m over 0.2 m (2') 1 = PTIH-10-6P connector (or equal, no charge) 6 = mini DIN connector Visit us online for additional options incluented compensated temperatures.	16 25 40 60 100 160 250 400 600	Ă,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	 Select a p Select ele Select a p Select predicts Select predicts Select ou 	custom configuration: pressure port ectrical connection pressure range essure units – Absolute, Sealed gage tput tions and agency approvals

Ordering Examples: PXM5500MB0-010BARS5T, 10 bar sealed gage pressure transducer with G1/₆B female connection and 0.6 m (2') cable termination.

PXM5500MD1-010BARA5T, 10 bar absolute pressure transducer with G1/4 **PTS06A-10-6S-R,** mating connector (sold separately).

To Order





RANGE		MODEL NO.	COMPATIBLE METER
ABSOLUTE PF	RESSURE (All	Ranges Available in I	Absolute Pressure)
0 to 15 psi	0 to 1.0 bar	PX5500L1-015AV	DP41-S, DP25B-S
0 to 25 psi	0 to 1.7 bar	PX5500L1-025AV	DP41-S, DP25B-S
0 to 50 psi	0 to 3.4 bar	PX5500L1-050AV	DP41-S, DP25B-S
0 to 100 psi	0 to 6.9 bar	PX5500L1-100AV	DP41-S, DP25B-S
GAGE PRESSI	JRE (All Rang	es also Available in S	Gealed Gage Pressure)
0 to 15 psi	0 to 1.0 bar	PX5500L1-015GV	DP41-S, DP25B-S
0 to 25 psi	0 to 1.7 bar	PX5500L1-025GV	DP41-S, DP25B-S
0 to 50 psi	0 to 3.4 bar	PX5500L1-050GV	DP41-S, DP25B-S
0 to 100 psi	0 to 6.9 bar	PX5500L1-100GV	DP41-S, DP25B-S
0 to 250 psi	0 to 17.2 bar	PX5500L1-250GV	DP41-S, DP25B-S
0 to 500 psi	0 to 34.5 bar	PX5500L1-500GV	DP41-S, DP25B-S
0 to 1000 psi	0 to 68.9 bar	PX5500L1-1KGV	DP41-S, DP25B-S
0 to 1500 psi	0 to 103 bar	PX5500L1-1.5KGV	DP41-S, DP25B-S
0 to 2500 psi	0 to 172 bar	PX5500L1-2.5KGV	DP41-S, DP25B-S
0 to 3000 psi	0 to 207 bar	PX5500L1-3KGV	DP41-S, DP25B-S
0 to 5000 psi	0 to 345 bar	PX5500L1-5KGV	DP41-S, DP25B-S
0 to 10,000 psi	0 to 689 bar	PX5500L1-10KGV	DP41-S, DP25B-S
Comes complete v To order absolute To order sealed go Ordering Example	pressure models age models, repla	r, replace " G " in model nui ace " G " in model number	it us online for compatible m mber with "A". No extra cha. with "S". No extra charge. ge transducer with PTIH-10- TSSAA 10-65 B

Models with mV/V Output, MS33656-4 Connection, Integral Connector

r compatible meters.

BLE METERS' essure)

'. No extra charge. extra charge. r with PTIH-10-6P electrical connection and MS33656-4 male pressure port. PTS06A-10-6S-R, mating connector (sold separately).

PX5500L1-100AV, 100 psi absolute pressure transducer with PTIH-10-6P electrical connection and MS33656-4 male pressure port. PTS06A-10-6S-R, mating connector (sold separately).

METRIC MODELS

To Order						
Models with	n G ¼ Male Pres	sure Connection, Cable or mi	ini DIN and mV/V Output			
RANGE		MODEL NO.	COMPATIBLE METERS*			
GAGE PRE	SSURE					
0 to 1 bar	0 to 15 psi	PXM5500MC[*]-001BARGV	DP41-S, DP25B-S			
0 to 1.60 bar	0 to 23 psi	PXM5500MC[*]-1.60BARGV	DP41-S, DP25B-S			
0 to 4 bar	0 to 58 psi	PXM5500MC[*]-004BARGV	DP41-S, DP25B-S			
0 to 6 bar	0 to 87 psi	PXM5500MC[*]-006BARGV	DP41-S, DP25B-S			
0 to 10 bar	0 to 145 psi	PXM5500MC[*]-010BARGV	DP41-S, DP25B-S			
0 to 16 bar	0 to 232 psi	PXM5500MC[*]-016BARGV	DP41-S, DP25B-S			
0 to 25 bar	0 to 363 psi	PXM5500MC[*]-025BARGV	DP41-S, DP25B-S			
0 to 40 bar	0 to 580 psi	PXM5500MC[*]-040BARGV	DP41-S, DP25B-S			
0 to 60 bar	0 to 870 psi	PXM5500MC[*]-060BARGV	DP41-S, DP25B-S			
0 to 100 bar	0 to 1450 psi	PXM5500MC[*]-100BARGV	DP41-S, DP25B-S			
0 to 160 bar	0 to 2321 psi	PXM5500MC[*]-160BARGV	DP41-S, DP25B-S			
0 to 250 bar	0 to 3626 psi	PXM5500MC[*]-250BARGV	DP41-S, DP25B-S			
0 to 400 bar	0 to 5802 psi	PXM5500MC[*]-400BARGV	DP41-S, DP25B-S			
0 to 600 bar	0 to 8702 psi	PXM5500MC[*]-600BARGV	DP41-S, DP25B-S			

omes complete with 5-point NIST-traceable calibration.

[*] = Insert "0" for 0.6 m (2') cable "1" for twist-lock connector for "6" for mini DIN connector. To order absolute pressure models, replace "G" in model number with "A" (no extra charge). To order sealed gage models, replace "G" in model number with "S" (no extra charge). Ordering Example: PXM5500MC6-60BARSV, mV/V output, 60 bar sealed gage transducer with mini DIN connector and G 1/4 male pressure port. Mating connector included.



ACCESSORY

MODEL NO.	DESCRIPTION
PTS06A-10-6S-R	Mating connector for PX5500/PXM5500 units with PTIH-10-6P electrical connection

^{*} Visit us online for compatible meters.

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Pressure Transducer

Imperial and Metric Models

0-5 and 0-10 Vdc Output Models 3 Wire Amplifier 0-15 to 0-10,000 psi-Imperial Models

0-1 to 0-600 bar-Metric Models 1 bar = 14.5 psi $1 \text{ kg/cm}^2 = 14.22 \text{ psi}$

1 atmosphere = 14.7 psi = 29.93 $inHg = 760.2 \ mmHg = 1.014 \ bar$

PX5500/ PXM5500 Series



- ✓ Integral Shunt Calibration
- ✓ Low Noise, 5 Vdc and 10 Vdc Output Models
- ✓ High 0.1% Accuracy
- Solid State Reliability
- Sputtered Strain Gage Design
- High Shock and Vibration Resistance
- ✓ Low Drift

Applications

- ✓ R&D/Engineering Test Laboratories
- ✓ Functional Test Systems
- Production Testing
- Flight Testing
- ✓ Gas Turbine and Engine **Test Stands**
- Hydraulic Systems
- ✓ Custody Transfer Measurements

OMEGA'S PX5500/PXM5500 transducer series provides high performance in demanding industrial and research applications where accuracy, reliability, and price are important. These transducers have a 10-year MTBF rate and are stable to 0.1% of FSO over an 18-month period. This translates into less downtime, fewer test reruns, more time between calibrations, and high confidence in your pressure data. When recalibration is impossible, relying on the high stability of the PX5500/ PXM5500 Series transducers may be the only cost-effective way to obtain pressure data over the long term. OMEGA's thin-film technology makes this premium performance nneeihla Tha etrain nanae and

associated parts are sputterdeposited directly onto the pressure sensing element, eliminating the need for adhesives. The resulting molecular bond between the sensing element and the strain gage ensures virtually no shifting, drifting, or "creep" in the performance of the transducer. The micro-geometry design of the PX5500/PXM5500 sensing element affords a very small, low-mass sensor that reduces effects of mechanical vibration and shock. The PX5500/PXM5500 gives you accuracy, reliability, and stability at competitive prices.

Specifications

Electrical Connection: See Custom Configurations

Pressure Port: See Custom Configurations

Mating Connector (Style 1): PT06F10-6S-R (sold separately)

Weight: 225 g (8 oz) max

Excitation: 16 to 38 Vdc unregulated Output (FS) 5E/5T Models: 5 Vdc

±0.1 Vdc ±10% adj

Output (FS) 10E Models: 10 Vdc

±0.1 Vdc ±10% adj

CE Compliant: Meets industrial emissions and immunity to EN61326 Zero Balance: 0 Vdc ±0.1 Vdc ±5% adj Input Current: 20 mA max with no load

Output Resistance: $100 \Omega \text{ max}$

Insulation Resistance:

 $100M\Omega$ at 50Vdc between all pins shorted together and case

Electrostatic Discharge: Protected to 15 kV max

Sensing Element:

4-active-arm bridge using sputterdeposited thin-film elements

Accuracy: Combined linearity, hysteresis and repeatability: ±0.10% FS (BFSL) <70 bar (<1000 psi) ±0.15% FS 70 bar (1000 psi) and above

Natural Frequency:

5 kHz for 1 bar (15 psi), increasing logarithmically to 50 kHz for 5000 psi **Operating Temp Range:** -54 to 121°C (-65 to 250°F)

Compensated Temp Range: -18 to 82°C (0 to 180°F)

Thermal Effects (Over the

Compensated Range): Span: ±0.015% FS/°F (0.027%/°C) Zero: ±0.015% FS/°F (0.027%/°C)

PX5500L1-100G5E, shown actual size.

Twist-lock

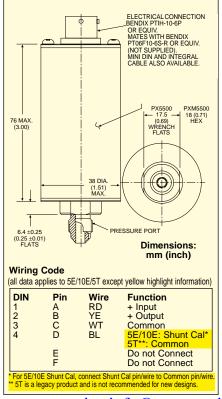
style.

Proof Pressure: 2 times rated pressure or 1000 bar (15,000 psi), whichever is less, will not cause changes in performance beyond the specified tolerance

Burst Pressure: 3 times rated pressure or 1300 bar (20,000 psi), whichever is less, will not cause rupture of the pressure containment cavity

Wetted Parts:

17-4 PH or 15-5 PH stainless steel



High-Performance Thin-Film Pressure

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Imperial Custom Configurations

PX5500 PRESSURE ELECTRICAL CONNECTION [1] [2]	RANGE - [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
A = ½-27 NPT male B = ½-27 NPT female C = ½-18 NPT male D = ½-18 NPT female L = MS33656-4 M = MS33649-4 0 = 0.6 m (2') cable add cost per/foot	015 psi 025 050 100 250 500 1K 1.5K	S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A	5E = 0 to 5 Vdc 10E = 0 to 10 Vdc 5T* = 0 to 5 Vdc * 5T is a legacy product and is not recommended for new designs.	CAL11 = 11-point calibration certificate + cost ()ft = Optional cable length in meters
over 0.6 m (2') 1 = PTIH-10-6P twist-loc connector (or equal, charge). Mating con (sold separately), or PT06F10-6S-R 6 = mini DIN connector (r Visit us online for additional options incluextended compensated temperatures.	no 5K nector 10K der no charge)	S,G,A S,G,A S,G,A S,G,A	 Select a pre Select elect Select a pre 	rical connection essure range sure units – Sealed Gage, solute ut

To Order

Popular Imperial Models with 0 to 5 or 0 to 10 Vdc Output Shown Below (See Custom Configurations Section for All Available Versions/Options)

Pressur	e Range	Model No. (With Output Termination Style)			
Imperial	Metric	0.6 m (2') Cable	PTIH-10-6P Connector	mini DIN Connector	
Absolute Press	sure (All Ranges	Available in Absolute	Pressure, See Custom C	Configurations Section)	
0 to 15 psi	0 to 1.0 bar	PX5500[*]0-015A[**]	PX5500[*]1-015A[**]	PX5500[*]6-015A[**]	
0 to 25 psi	0 to 1.7 bar	PX5500[*]0-025A[**]	PX5500[*]1-025A[**]	PX5500[*]6-025A[**]	
0 to 50 psi	0 to 3.4 bar	PX5500[*]0-050A[**]	PX5500[*]1-050A[**]	PX5500[*]6-050A[**]	
0 to 100 psi	0 to 6.9 bar	PX5500[*]0-100A[**]	PX5500[*]1-100A[**]	PX5500[*]6-100A[**]	
Gage Pressure	(All Ranges Als	so Available in Sealed G	Sage Pressure, See Belo	w)	
0 to 15 psi	0 to 1.0 bar	PX5500[*]0-015G[**]	PX5500[*]1-015G[**]	PX5500[*]6-015G[**]	
0 to 25 psi	0 to 1.7 bar	PX5500[*]0-025G[**]	PX5500[*]1-025G[**]	PX5500[*]6-025G[**]	
0 to 50 psi	0 to 3.4 bar	PX5500[*]0-050G[**]	PX5500[*]1-050G[**]	PX5500[*]6-050G[**]	
0 to 100 psi	0 to 6.9 bar	PX5500[*]0-100G[**]	PX5500[*]1-100G[**]	PX5500[*]6-100G[**]	
0 to 250 psi	0 to 17.2 bar	PX5500[*]0-250G[**]	PX5500[*]1-250G[**]	PX5500[*]6-250G[**]	
0 to 500 psi	0 to 34.5 bar	PX5500[*]0-500G[**]	PX5500[*]1-500G[**]	PX5500[*]6-500G[**]	
0 to 1000 psi	0 to 68.9 bar	PX5500[*]0-1KG[**]	PX5500[*]1-1KG[**]	PX5500[*]6-1KG[**]	
0 to 1500 psi	0 to 103 bar	PX5500[*]0-1.5KG[**]	PX5500[*]1-1.5KG[**]	PX5500[*]6-1.5KG[**]	
0 to 2500 psi	0 to 172 bar	PX5500[*]0-2.5KG[**]	PX5500[*]1-2.5KG[**]	PX5500[*]6-2.5KG[**]	
0 to 3000 psi	0 to 207 bar	PX5500[*]0-3KG[**]	PX5500[*]1-3KG[**]	PX5500[*]6-3KG[**]	
0 to 5000 psi	0 to 345 bar	PX5500[*]0-5KG[**]	PX5500[*]1-5KG[**]	PX5500[*]6-5KG[**]	
0 to 10,000 psi	0 to 689 bar	PX5500[*]0-10KG[**]	PX5500[*]1-10KG[**]	PX5500[*]6-10KG[**]	

Comes complete with 5-point NIST-traceable calibration. Visit us online for compatible meters.

[*] Pressure Port (see Custom Configurations section and enter A, B, C, D, L, or M).

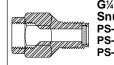
[**] Output Voltage Range: Enter "5E" for 0 to 5 Vdc output, or "10E" for 0 to 10 Vdc output. To order absolute pressure transducers, change "G" in model number to "A" (no extra charge).

To order absolute pressure transducers, change "G" in model number to "A" (no extra charge).

To order sealed gage transducers, change "G" in model number to "S" (no extra charge).

Ordering Examples: PX5500L1-025A10E, 25 psi absolute transducer with 0 to 10 Vdc output, PTIH-10-6P electrical connection, and MS33656-4, male pressure port. **PT06F10-6S-R,** mating connector (sold separately).

PX5500C6-5KG5E, 5000 psi gage pressure transducer with 0 to 5 Vdc output, mini DIN electrical connection, and ¼-18 NPT male pressure port.



G% Pressure Snubbers: PS-4G-MG = Gas PS-4E-MG = Lt Oil PS-4D-MG = Dense Liquid

High-Performance Thin-Film Pressure

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Metric Custom Configurations

PXM5500 PRESSURE ELECTRICAL SERIES PORT CONNECTION [1] [2] -	RANGE (BAR) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
MA = G%B Male extra charge MB = G%B Female no charge MC = G%B Male extra charge MD = G%B Female no charge 0 = 0.6 m (2') cable (std) add cost per/meter over 0.6 m (2') 1 = PTIH-10-6P twist-lock connector (or equal, no charge). Mating connector (sold separately), order PT06F10-6S-R 6 = mini DIN connector (no charge) Visit us online for additional options including extended compensated temperatures.	001BAR 1.60BAR 004BAR 006BAR 010BAR 016BAR 025BAR 040BAR 100BAR 160BAR 250BAR 400BAR 600BAR	S,G,A G,G,G,G,A S,G,G,G,G,A,A S,G,G,G,G,G,G,G,G,G,G,G,G,G,G,G,G,G,G,G	 Select a p Select ele Select a p 	tput

	Popular Metric Models with 0 to 5 or 0 to 10 Vdc Output Shown Below (See Custom Configurations Section for All Available Versions/Options)				
Pressur	e Range	Model N	No. (With Output Terminatio	n Style)	
Metric	Imperial	0.6 m (2') Cable	PTIH-10-6P Connector	mini DIN Connector	
Gage Press	ure (All Range	es Also Available in Absolu	te and Sealed Gage Pressu	re, See Below)	
0 to 1 bar	0 to 15 psi	PXM5500M[*]0-001BARG[**]	PXM5500M[*]1-001BARG[**]	PXM5500M[*]6-001BARG[**]	
0 to 1.60 bar	0 to 23 psi	PXM5500M[*]0-1.60BARG[**]	PXM5500M[*]1-1.60BARG[**]	PXM5500M[*]6-1.60BARG[**]	
0 to 4 bar	0 to 58 psi	PXM5500M[*]0-004BARG[**]	PXM5500M[*]1-004BARG[**]	PXM5500M[*]6-004BARG[**]	
0 to 6 bar	0 to 87 psi	PXM5500M[*]0-006BARG[**]	PXM5500M[*]1-006BARG[**]	PXM5500M[*]6-006BARG[**]	
0 to 10 bar	0 to 145 psi	PXM5500M[*]0-010BARG[**]	PXM5500M[*]1-010BARG[**]	PXM5500M[*]6-010BARG[**]	
0 to 16 bar	0 to 232 psi	PXM5500M[*]0-016BARG[**]	PXM5500M[*]1-016BARG[**]	PXM5500M[*]6-016BARG[**]	
0 to 25 bar	0 to 363 psi	PXM5500M[*]0-025BARG[**]	PXM5500M[*]1-025BARG[**]	PXM5500M[*]6-025BARG[**]	
0 to 40 bar	0 to 580 psi	PXM5500M[*]0-040BARG[**]	PXM5500M[*]1-040BARG[**]	PXM5500M[*]6-040BARG[**]	
0 to 60 bar	0 to 870 psi	PXM5500M[*]0-060BARG[**]	PXM5500M[*]1-060BARG[**]	PXM5500M[*]6-060BARG[**]	
0 to 100 bar	0 to 1450 psi	PXM5500M[*]0-100BARG[**]	PXM5500M[*]1-100BARG[**]	PXM5500M[*]6-100BARG[**]	
0 to 160 bar	0 to 2321 psi	PXM5500M[*]0-160BARG[**]	PXM5500M[*]1-160BARG[**]	PXM5500M[*]6-160BARG[**]	
0 to 250 bar	0 to 3626 psi	PXM5500M[*]0-250BARG[**]	PXM5500M[*]1-250BARG[**]	PXM5500M[*]6-250BARG[**]	
0 to 400 bar	0 to 5802 psi	PXM5500M[*]0-400BARG[**]	PXM5500M[*]1-400BARG[**]	PXM5500M[*]6-400BARG[**]	
0 to 600 bar	0 to 8702 psi	PXM5500M[*]0-600BARG[**]	PXM5500M[*]1-600BARG[**]	PXM5500M[*]6-600BARG[**]	

Comes complete with 5-point NIST-traceable calibration. Visit us online for compatible meters.

Ordering Examples: PXM5500MC6-060BARS5E, 60 bar sealed gage transducer with 0 to 5 Vdc output, mini DIN electrical connection and G½ male pressure port. Mating connector included.

PXM5500MC0-010BARA10E, 10 bar absolute pressure transducer with 0 to 10 Vdc output, 0.6 m (2') cable connection and G¼ male pressure port.

Accessories

Model No.	Description
PT06F10-6S-R	Mating connector for PX5500/PXM5500 Series units with PTIH-10-6P twist-lock connector

^[*] Pressure Port (see Custom Configurations section and enter MA, MB, MC, or MD).

^[**] Output Voltage Range: Enter "5E" for 0 to 5 Vdc output, or "10E" for 0 to 10 Vdc output.

To order absolute pressure models, replace "G" in model number with "A" (no extra charge).

To order sealed gage models, replace "G" in model number with "S" (no extra charge).

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4 to 20 mA Output 0-15 to 0-10,000 psi-Standard Models 0-1 to 0-600 bar-Metric Models

1 bar = 14.5 psi $1 \text{ kg/cm}^2 = 14.22 \text{ psi}$ 1 atmosphere = 14.7 psi = 29.93 $inHg = 760.2 \ mmHg = 1.014 \ bar$



PX5500/PXM5500 Series



- ✓ High 0.1% Accuracy
- Solid State Reliability
- ✓ Sputtered Strain Gage Design
- High Shock and Vibration Resistance
- ✓ Low Drift
- ✓ 5-Point NIST **Calibration Standard**

Applications

- Testing
- ✓ R&D/Engineering Test Laboratories
- Functional Test Systems
- Production Testing
- ✓ Product Quality Assurance
- Flight Testing
- Gas Turbine and Engine **Test Standards**
- ✓ Ground Support **Equipment**
- Hydraulic Systems
- Custody Transfer Measurements

OMEGA's PX5500/PXM5500 transducer series provides high performance in demanding industrial and research applications where accuracy, reliability, and price are important. These transducers have a 10-year MTBF rate and are stable to 0.1% of FS over an 18-month period. This translates into less downtime, fewer test reruns, more time between calibrations, and more reliable pressure data. When recalibration is impossible, relying on the high stability of a PX5500/ PXM5500 transducer may be the only cost-effective way to obtain pressure data over the long term. OMEGA's thin-film technology makes this premium performance possible. The strain gages and associated structures are sputterdeposited directly onto the pressure sensing element, thus eliminating the need for adhesives. The resulting molecular bond between the sensing element and the strain gages ensures virtually no shifting, drifting, or "creep" in the performance of the transducer. The micro-geometry design of the PX5500/PXM5500 sensing element results in a very small, low-mass sensor that reduces effects of mechanical vibration and shock. The PX5500/PXM5500 delivers accuracy, reliability, and stability at competitive prices.

SPECIFICATIONS

mA Models

Excitation: 10 to 40 Vdc unregulated, reverse polarity protected

Output (FS): 4 to 20 mA ±0.8 mA adj Zero Balance: 4 mA ±0.4 mA adj

Input Current: 20 mA max with no load

Dimensions: mm (inch) ELECTRICAL CONNECTION BENDIX PTIH-10-6P OR EQUIV. MATES WITH BENDIX PT06F10-6S-R OR EQUIV. (NOT SUPPLIED). ALSO AVAILABLE: mini DIN CONNECTOR OR INTEGRAL 0.6 m (24") CABLE PX5500 PXM5500 17.5 G1/4 - ±0.25 → 18 (0.71) G1/4 18 (0.71) HEX 76 MAX (3.00) Θ (1.51) MAX. 500: PRESSURE PORT JASS-44 (FEMALE) JASS-45 (FEMALE) JPT (MALE OR FEMALE) JPT (MALE OR FEMALE) JPT (MALE OR FEMALE) JPT (MALE OR FEMALE) Wiring Code DIN Pin Wire RD YE **Function** + Input No Con В No Con 2 WT - Input E No Connection F No Connection

Twist-lock

Load Impedance: 50 (V - 10) Ω max where V is supply voltage (40 Vdc max)

Insulation Resistance:

 $100M\Omega$ at 50Vdc between all pins shorted together and case

Electrostatic Discharge:

Protected to 15 kV max

Sensing Element:

4-active-arm bridge using sputterdeposited thin-film elements

Accuracy (Combined Linearity, Hysteresis and Repeatability): ±0.10% FS (BFSL) <1000 psi ±0.15% FS 1000 psi and above

Vibration Sensitivity: At 20 g peak sinusoidal vibration from 10 to 2000 Hz (1/2" D.A.), the output shall not exceed 0.04% FS/g for 15 psi range, decreasing to 0.003% FS/g for 1000 psi and above

Natural Frequency: 5 kHz for 15 psi, increasing logarithmically to 50 kHz for 5000 psi

SPUTTERED SILICON TECHNOLOGY

Shock: Qualification level of 100 g. 11 ms half sine wave without damage

Operating Temp Range: -40 to 85°C (-40 to 185°F)

Compensated Temp Range: -18 to 82°C (0 to 180°F) Thermal Effects (Over the

Compensated Range): **Span:** ±0.02% FS/°F Zero: ±0.02% FS/°F

Proof Pressure: 2 times rated pressure or 15,000 psi, whichever is less, will not cause changes in performance beyond the specified tolerance

Burst Pressure: 3 times rated pressure or 20,000 psi, whichever is less, will not cause rupture of the pressure containment cavity

Wetted Parts:

17-4 PH or 15-5 PH stainless steel

Pressure Port: See dimensional drawings on page B-215

Electrical Connection: PTIH-10-6P

standard Mating Connector: PT06F10-6S-R

(sold separately)

Weight: 225 g (8 oz) maximum

STANDARD CUSTOM CONFIGURATIONS

PX5500 SERIES	PRESSURE PORT [1]	ELECTRICAL CONNECTION [2]	RANGE (psi) [3]	UNITS [4]	О UТР UТ [5]	OPTIONS [6]
B = C = D = L =	add 1 = PTIH (or e Mati (sole PT0	le	015 025 050 100 250 500 1K 1.5K 6 m (2') 2.5K 3K 5K 10K	A, A	To order a custor 1. Select a pressu 2. Select electrical 3. Select a pressu 4. Select pressure Gage or Sealed 5. Select output 6. Select options a	re port connection re range units – Absolute,

Ordering Examples: PX5500A1-015AV, 1/8-27 NPT male pressure port, twist-lock connector, 15 psi absolute pressure range and mV/V output. PT06F10-6S-R, mating connector (sold separately). PX5500M1-10KG5T, MS33649-4 female pressure port, twist-lock connector, 10.000 psi gage pressure range and 0 to 5 Vdc output. PT06F10-6S-R, mating connector (sold separately). PX5500L0-015Al-25FT, MS33656-4 male pressure port, 8 m (25') lead wire, 15 psi absolute pressure range and 4 to 20mA output.

METRIC CUSTOM CONFIGURATIONS

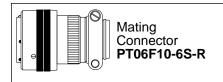
PXM5500 PRESSURE CONNECTION [1] [2] MA = G%B Male cost MB = G%B Female no charge MC = G%B Male cost MD = G%B Female no charge MC = G%B Female no charge 0 = 0.6 m (2') cable (std)	RANGE (BAR) [3] 1.0 1.6 4.0 6.0 10 16	UNITS [4] 8 A, G,	OUTPUT [5] Base price PXM5500 I = 4 to 20 mA	OPTIONS [6] CAL11 = 11-point calibration certificate ()m = Optional cable length in meters
add cost per/m over 0.2 m (1 = PTIH-10-6P connector	60 100 160 250 400 600	Ã,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4	 Select a Select ele Select a Select progage or select out 	custom configuration: pressure port ectrical connection pressure range essure units – Absolute, Sealed gage utput otions and agency approvals

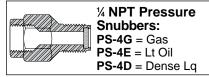
Ordering Examples: PXM5500MB0-010BARS5T, 10 bar sealed gage pressure transducer with G1/6B female connection and 0.6 m (2') cable termination.

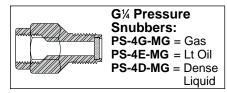
PXM5500MD1-010BARA5T, 10 bar absolute pressure transducer with G₁/4_B tomale connection and twist-lock connector. PT06F10-6S-R, mating connector (sold separately).

style.









ACCESSORY

MODEL NO.	DESCRIPTION		
PT06F10-6S-R	Mating connector for PX5500 units with integral twist-lock connector		

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Models with 4 to 20 mA Output, MS33656-4 Connection, Twist-Lock Connector						
RANGE		MODEL NO.	COMPATIBLE METERS*			
Absolute Pressure (All Ranges Available in Absolute Pressure)						
0 to 15 psi	0 to 1.0 bar	PX5500L[*]-015AI	DP41-E, DP25B-E, DP24-E			
0 to 25 psi	0 to 1.7 bar	PX5500L[*]-025AI	DP41-E, DP25B-E, DP24-E			
0 to 50 psi	0 to 3.4 bar	PX5500L[*]-050AI	DP41-E, DP25B-E, DP24-E			
0 to 100 psi	0 to 6.9 bar	PX5500L[*]-100AI	DP41-E, DP25B-E, DP24-E			
Gage Pressure	(All Ranges Al	so Available in Sealed	d Gage Pressure)			
0 to 15 psi	0 to 1.0 bar	PX5500L[*]-015GI	DP41-E, DP25B-E, DP24-E			
0 to 25 psi	0 to 1.7 bar	PX5500L[*]-025GI	DP41-E, DP25B-E, DP24-E			
0 to 50 psi	0 to 3.4 bar	PX5500L[*]-050GI	DP41-E, DP25B-E, DP24-E			
0 to 100 psi	0 to 6.9 bar	PX5500L[*]-100GI	DP41-E, DP25B-E, DP24-E			
0 to 250 psi	0 to 17.2 bar	PX5500L[*]-250GI	DP41-E, DP25B-E, DP24-E			
0 to 500 psi	0 to 34.5 bar	PX5500L[*]-500GI	DP41-E, DP25B-E, DP24-E			
0 to 1000 psi	0 to 68.9 bar	PX5500L[*]-1KGI	DP41-E, DP25B-E, DP24-E			
0 to 1500 psi	0 to 103 bar	PX5500L[*]-1.5KGI	DP41-E, DP25B-E, DP24-E			
0 to 2500 psi	0 to 172 bar	PX5500L[*]-2.5KGI	DP41-E, DP25B-E, DP24-E			
0 to 3000 psi	0 to 207 bar	PX5500L[*]-3KGI	DP41-E, DP25B-E, DP24-E			
0 to 5000 psi	0 to 345 bar	PX5500L[*]-5KGI	DP41-E, DP25B-E, DP24-E			
0 to 10,000 psi	0 to 689 bar	PX5500L[*]-10KGI	DP41-E, DP25B-E, DP24-E			

Comes complete with 5-point NIST traceable calibration.

[*] = Insert "0" for 0.6 m (2') cable, "1" for twist-lock connector, or "6" for mini DIN connector.

To order absolute pressure models, change "G" in model number to "A" (no extra charge). To order sealed gage models, change "G" in model number to "S" (no extra charge).

Ordering Examples: PX5500L1-1KSI, 1000 psi sealed gage transducer with 4 to 20 mA output, PTIH-10-6P electrical connector and MS33656-4, male pressure port. PT06F10-6S-R, mating connector (sold separately).

PX5500L1-100AI, 100 psi absolute pressure transducer with 4 to 20 mA output, PTIH-10-6P electrical connector and MS33656-4, male pressure port. PT06F10-6S-R, mating connector (sold separately).

METRIC MODELS

Models with G ¼ Male Pressure Connection, Cable or Connector and 4 to 20 mA Output						
RANG	GE	MODEL NO.	COMPATIBLE METERS*			
GAGE PRESSURE						
0 to 1 bar	0 to 15 psi	PXM5500MC[*]-001BARGI	DP41-E, DP25B-E, DP24-E			
0 to 1.60 bar	0 to 23 psi	PXM5500MC[*]-1.60BARGI	DP41-E, DP25B-E, DP24-E			
0 to 4 bar	0 to 58 psi	PXM5500MC[*]-004BARGI	DP41-E, DP25B-E, DP24-E			
0 to 6 bar	0 to 87 psi	PXM5500MC[*]-006BARGI	DP41-E, DP25B-E, DP24-E			
0 to 10 bar	0 to 145 psi	PXM5500MC[*]-010BARGI	DP41-E, DP25B-E, DP24-E			
0 to 16 bar	0 to 232 psi	PXM5500MC[*]-016BARGI	DP41-E, DP25B-E, DP24-E			
0 to 25 bar	0 to 363 psi	PXM5500MC[*]-025BARGI	DP41-E, DP25B-E, DP24-E			
0 to 40 bar	0 to 580 psi	PXM5500MC[*]-040BARGI	DP41-E, DP25B-E, DP24-E			
0 to 60 bar	0 to 870 psi	PXM5500MC[*]-060BARGI	DP41-E, DP25B-E, DP24-E			
0 to 100 bar	0 to 1450 psi	PXM5500MC[*]-100BARGI	DP41-E, DP25B-E, DP24-E			
0 to 160 bar	0 to 2321 psi	PXM5500MC[*]-160BARGI	DP41-E, DP25B-E, DP24-E			
0 to 250 bar	0 to 3626 psi	PXM5500MC[*]-250BARGI	DP41-E, DP25B-E, DP24-E			
0 to 400 bar	0 to 5802 psi	PXM5500MC[*]-400BARGI	DP41-E, DP25B-E, DP24-E			
0 to 600 bar	0 to 8702 psi	PXM5500MC[*]-600BARGI	DP41-E, DP25B-E, DP24-E			

Comes complete with 5-point NIST traceable calibration.

[*] = Insert "0" for 0.6 m (2') cable, "1" for twist-lock connector, or "6" for mini DIN connector. To order absolute pressure models, replace "**G**" in model number with "**A**" (no extra charge). To order sealed gage models, replace "**G**" in model number with "**S**" (no extra charge). Ordering Examples: PXM5500MC0-060BARSI, 60 bar sealed gage transmitter with

4 to 20 mA output, 0.6 m (2') cable connection and G $\frac{1}{4}$ male pressure port.

PXM5500MC6-1.60BARAI, 1.6 bar absolute pressure transmitter with 4 to 20 mA output, mini-DIN connection and G ½ male pressure port. Mating connector included.

^{*} Visit us online for compatible meters.

^{*} Visit us online for compatible meters.

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PRESSURE TRANSDUCER **WITH %-24 THREAD**

0-200 to 0-10,000 psi 0-13.8 to 0-689 bar

PX600 Series



- All Stainless Steel Diaphragm and Threaded Sidewall Construction
- Rugged Stainless **Steel Case Protects** Components in Industrial **Environments**
- ✓ Uses a Standard 5 Vdc **Regulated Power Supply** for Maximum Versatility
- Custom Subminiature **Design Techniques** Provide Small Size and **Preserve Accuracy**

SPECIFICATIONS

Excitation: 5 Vdc @15 mA Output: 10 mV typical @ 5 Vdc Sensitivity: 2 mV/V nominal Input Impedance: 350 Ω min Output Resistance: 350 Ω min

Insulation Resistance: 5 MΩ @ 75 Vdc

Accuracy: ±1% FS

(linearity and hysteresis combined)

Repeatability: ±0.1% FS Zero Balance: ±3% FS

Operating Temperature Range: -54 to 121°C (-65 to 250°F)

Compensated Temperature Range:

16 to 71°C (60 to 160°F)

Thermal Zero Effect: <±0.018% full scale/°C

Thermal Sensitivity Effect: ±0.036%

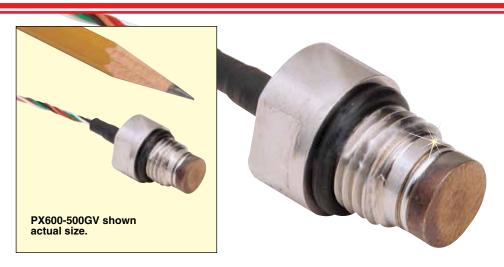
reading/°C

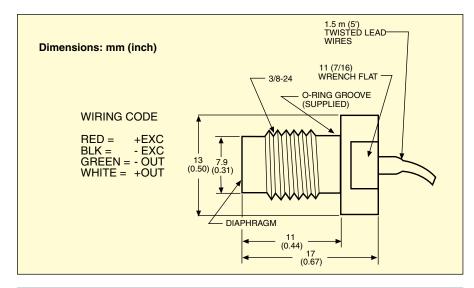
Proof Pressure: 150% range Burst Pressure: 400% range **Body and Diaphragm Material:**

17-4 PH stainless steel **O-Ring:** 2-011, FKM

Electrical Connection: 4-conductor cable

Weiaht: 14 a (0.5 oz)





To Order						
RANGE						
psig	bar	MODEL NO.	COMPATIBLE METERS			
0 to 200	0 to 13.8	PX600-200GV	DP41-S**, DP25B-S**, DP87**			
0 to 500	0 to 34.5	PX600-500GV	DP41-S**, DP25B-S**, DP87**			
0 to 1000	0 to 68.9	PX600-1KGV	DP41-S**, DP25B-S**, DP87**			
0 to 2000	0 to138	PX600-2KGV	DP41-S**, DP25B-S**, DP87**			
0 to 3000	0 to 207	PX600-3KGV	DP41-S**, DP25B-S**, DP87**			
0 to 5000	0 to 345	PX600-5KGV	DP41-S**, DP25B-S**, DP87**			
0 to 10,000	0 to 689	PX600-10KGV	DP41-S**, DP25B-S**, DP87**			

ACCESSORIES

MODEL NO.	DESCRIPTION				
2-011-P	Polyvinyl O-rings, 10 pack				
2-011-V	FKM O-rings, 10 pack				

Comes complete with 5-point calibration and FKM O-rings.

** Meter excitation voltage requires field adjustment by customer to 5 Vdc. Ordering Fxample: PX600-200GV. 200 nsig subminiature transducer

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PRESSURE TRANSDUCER STANDARD AND METRIC MODELS

mV/V Output 0-15 to 0-300 psi-Standard Models 0-1 to 0-25 bar-Metric Models

PX6000L1-100GV MS33656-4 pressure ports standard, shown actual size.

PX6000/PXM6000 Series



- High Reliability
- ✓ Long-Term Stability
- ✓ All Stainless Steel Case
- ✓ Vacuum Range Available

Applications

- Automotive Testing
- Research and Development
- Engineering Testing and Evăluation
- Production Testing
- ✓ Flight Recorders
- ✓ Engine Monitoring
- ✓ Ground Support **Equipment**
- Built-In Temperature Sensor

OMEGA's PX6000/PXM6000 Series pressure transducers fit easily into your application. These low-cost transducers are small and light, and mounting requires no bulky structures. You select from 3 electrical terminations and 6 pressure fittings. The sensor is a small [about 2.54 cm (0.1")] square silicon chip with 4 diffused strain gages, mounted in the stainless steel case. Laser-trimmed resistors provide temperature compensation and adjust zero balance and span. The 30 mV full range output is compatible with most amplifiers and data acquisition systems.

The PX6000/PXM6000 uses solid state media isolation for improved reliability. Thin films of chemically inert materials are deposited or grown on the chip surface to provide electrical isolation between the sensor and pressure medium. The

sensor is less sensitive to vibration and more dependable in high-shock environments. Corrosion resistance is outstanding, and the isolation will remain effective because there is no gel or oil column to deteriorate.

SPECIFICATIONS **ELECTRICAL**

Excitation: 10 Vdc Output: $3 \text{ mV/V} \pm 10\%$

Input Resistance: 2000 Ω minimum Output Resistance: 1000Ω minimum.

1500 Ω maximum

Zero Balance: 0 mV ±5% FSO **Dielectric Isolation Resistance:**

100 M Ω minimum at 50 Vdc applied between the case or a conductive medium and the bridge circuit

Sensing Element: 4-active-arm bridge using a micro-machined diffused silicon diaphragm sensor, thin-film media and dielectric isolation barriers

Temperature Sensor:

Output resistance @ 24°C (75°F)

900 to 1500 Ω

Temperature Coefficient: 8% minimum, 10% maximum per

55.5°C (100°F) **PERFORMANCE**

Accuracy: ±0.25% FS combined linearity, hysteresis and repeatability for all ranges

ENVIRONMENTAL Operating Temp Range: -54 to 150°C (-65 to 300°F)

Compensated Temp Range: -54 to 121°C (-65 to 250°F)

Thermal Effects:

Span: ≤±0.02% of FS/°F **Zero:** ≤±0.02% of FS/°F

Vibration Sensitivity: At 35g peak sinusoidal vibration from 10 Hz to 2000 Hz (½" D.A.), the output shall not exceed 0.04% FS/g for 15 psi range to 0.005% FS/g for 100 psi and above

Natural Frequency: Greater than 35 kHz for 100 psi and above

Shock: 100 g, 11 ms half sine wave without damage

PRESSURE

Proof Pressure: 2 times rated pressure will not cause changes in performance beyond the specified tolerances

Burst Pressure: 3 times rated pressure for pressure ranges below 200 psi, or 2.5 times rated pressure for pressure ranges above 200 psi will not cause rupture of the pressure sensor

MECHANICAL

Wetted Parts: 316 stainless steel. silicon nitride, Pyrex® glass, epoxy,

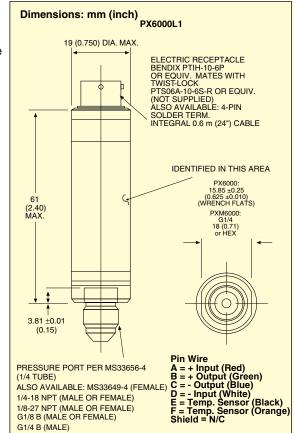
Electrical Connection:

PTIH-10-6P or 0.6 m (2') cable, 4-pin solder terminal header, or mini-DIN connector

Pressure Port: See custom configurations Weight: 4 oz max, excluding pressure fitting and electrical connection

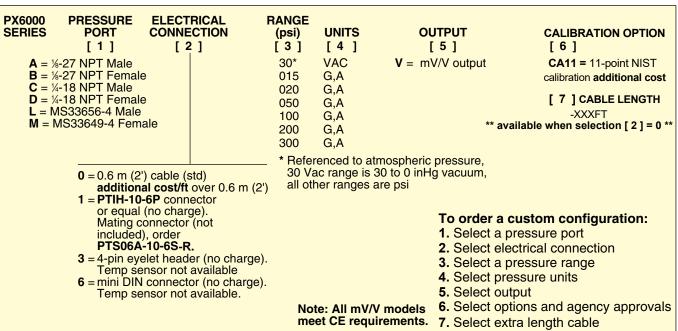
Mating Connector:

PTS06A-10-6S-R (sold separately)



DIFFUSED SEMICONDUCTOR PRESSURE TRANSDUCER

STANDARD CUSTOM CONFIGURATIONS



Ordering Examples: PX6000M1-100GI, 100 psi vented gage pressure transducer with MS33649-4 female pressure connection, PTIH-10-6P electrical connector and 4 to 20 mA output. **PTS06A-10-6S-R**, mating connector (sold separately).

PX6000A0-30VACV-25FT, 30 to 0 inHg vacuum transducer with a ½-27 NPT male pressure connection, a reverse-acting (30 inHg vacuum = full scale output) mV/V output, and a 7.6 m (25') cable.

PX6000L1-015A5T, 15 psi absolute pressure transducer with MS33656-4 male pressure connection, PTIH-10-6P electrical connector and 0 to 5 Vdc output. **PTS06A-10-6S-R**, mating connector (sold separately).

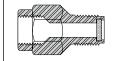


¼ NPT Pressure Snubbers:

PS-4G = Gas

PS-4E = Lt Oil

PS-4D = Dense Lq



G¹/₄ Pressure Snubbers:

PS-4G-MG = Gas

PS-4E-MG = Lt Oil

PS-4D-MG = Dense Liquid

METRIC CUSTOM CONFIGURATIONS

PXM6000 PRESSURE ELECTRICAL CONNECTION [1] [2] MA = G1/8 Male additional cost MB = G1/8 Female no charge MC = G1/8 Male additional cost 0 = 0.6 m (2') cable (std)	RANGE (BAR) UNITS [3] [4] 1.0 A, G 1.6 A, G 4.0 A, G 6.0 A, G 10 A, G 10 A, G	OUTPUT [5] V = mV/V ** available when selection [CALIBRATION OPTION [6] CAL11 = 11-point NIST calibration additional cost [7] CABLE LENGTH 2] = 0 ** -XXXM
additional cost/ft over 0.6 m (2') 1 = PTIH-10-6P connector (or equal, no charge) 3 = 4-pin eyelet* *no shunt cal (no charge) 6 = mini DIN connector* *no shunt cal (no charge)	Note: All mV/V mod meet CE requireme	 Select a pres Select electrical Select a pres Select press Select outpu Select option 	ical connection ssure range ure units – absolute, gage t ns and agency approvals

Ordering Examples: PXM6000MB0-010BARAV, 10 bar absolute pressure transducer with $G\frac{1}{8}$ B female connection and 0.6 m (2') cable termination.

PXM6000MD1-010BARAV, 10 bar absolute pressure transducer with G1/4B female connection and twist-lock connector **PTS06A-10-6S-R** mating connector (sold separately).

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STANDARD MODELS

To Order Models with MS33656-4 Pressure Connection, Integral Connector & mV/V Output **RANGE** psi MODEL NO. **COMPATIBLE METERS*** bar **VACUUM** 30 to 0 (inHg) -1 to 0 PX6000L1-30VACV DP41-S, DP25B-S **ABSOLUTE PRESSURE** DP41-S, DP25B-S 0 to 15 0 to 1.0 PX6000L1-015AV 0 to 20 0 to 1.4 PX6000L1-020AV DP41-S, DP25B-S 0 to 50 0 to 3.4 PX6000L1-050AV DP41-S, DP25B-S 0 to 100 0 to 6.9 PX6000L1-100AV DP41-S, DP25B-S 0 to 200 0 to 13.8 PX6000L1-200AV DP41-S, DP25B-S 0 to 300 PX6000L1-300AV DP41-S, DP25B-S 0 to 20.7 **GAGE PRESSURE** 0 to 15 PX6000L1-015GV DP41-S, DP25B-S 0 to 1.0 0 to 20 0 to 1.4 PX6000L1-020GV DP41-S, DP25B-S 0 to 50 0 to 3.4 PX6000L1-050GV DP41-S, DP25B-S

Comes complete with 5-point NIST traceable calibration.

0 to 6.9

0 to 13.8

0 to 20.7

Ordering Example: PX6000L1-050GV, 50 psi gage pressure transducer with PTIH-10-6P electrical connection and MS33656-4 male pressure port. PTS06A-10-6S-R, mating connector (sold separately).

PX6000L1-100GV

PX6000L1-200GV

PX6000L1-300GV

ACCESSORY

MODEL NO.	DESCRIPTION
PTS06A-10-6S-R	Mating connector for PX6000 units with PTIH-10-6P electrical connection

METRIC MODELS

To Order								
Models with	Models with G 1/4 Male Pressure Connection, Cable or mini DIN and mV/V Output							
RA	NGE	MODEL NO.	COMPATIBLE METERS*					
ABSOLUTE	ABSOLUTE PRESSURE							
0 to 1 bar	0 to 15 psi	PXM6000MC[*]-001BARAV	DP41-S, DP25B-S					
0 to 1.60 bar	0 to 23 psi	PXM6000MC[*]-1.60BARAV	DP41-S, DP25B-S					
0 to 4 bar	0 to 58 psi	PXM6000MC[*]-004BARAV	DP41-S, DP25B-S					
0 to 6 bar	0 to 87 psi	PXM6000MC[*]-006BARAV	DP41-S, DP25B-S					
0 to 10 bar	0 to 145 psi	PXM6000MC[*]-010BARAV	DP41-S, DP25B-S					
0 to 16 bar	0 to 232 psi	PXM6000MC[*]-016BARAV	DP41-S, DP25B-S					
GAGE PRES	SURE							
0 to 1 bar	0 to 15 psi	PXM6000MC[*]-001BARGV	DP41-S, DP25B-S					
0 to 1.60 bar	0 to 23 psi	PXM6000MC[*]-1.60BARGV	DP41-S, DP25B-S					
0 to 4 bar	0 to 58 psi	PXM6000MC[*]-004BARGV	DP41-S, DP25B-S					
0 to 6 bar	0 to 87 psi	PXM6000MC[*]-006BARGV	DP41-S, DP25B-S					
0 to 10 bar	0 to 145 psi	PXM6000MC[*]-010BARGV	DP41-S, DP25B-S					
0 to 16 bar	0 to 232 psi	PXM6000MC[*]-016BARGV	DP41-S, DP25B-S					
0 to 25 bar	0 to 319 psi	PXM6000MC[*]-025BARGV	DP41-S, DP25B-S					

Comes complete with 5-point calibration.

DP41-S, DP25B-S

DP41-S, DP25B-S

DP41-S, DP25B-S

Ordering Example: PXM6000MC0-004BARGV, 4 bar gage pressure transducer with 0.6 m (2') cable and G 1/4 male pressure port.





PXM6000MC6-004BARAV, shown installed, smaller than actual size.

^{*} Visit us online for compatible meters.

^{*} Visit us online for compatible meters.

^{[*] =} Insert "0" for 0.6 m (2') cable or "6" for mini DIN connector.

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TRANSDUCER STANDARD AND METRIC MODELS

0-5 Vdc Output 0-15 to 0-300 psi-Standard Models 0-1 to 0-16 bar-Metric Models

1 bar = 14.5 psi1 kg/cm² = 14.22 psi 1 atmosphere = 14.7 psi = 29.93 $inHg = 760.2 \ mmHg = 1.014 \ bar$



PX6000/PXM6000 Series



- High Reliability
- ✓ Long-Term Stability
- ✓ All Stainless Steel Case
- ✓ Vacuum Range Available

OMEGA's PX6000/PXM6000 pressure transducers fit easily into your applications. This low-cost transducer is small and light, and mounting requires no bulky structures. You select from 3 electrical terminations and 6 pressure fittings. The sensor is a small [about 2.5 mm (0.1")] square silicon chip with 4 diffused strain gages, mounted in the stainless steel case. Laser-trimmed resistors provide temperature compensation and adjust zero balance and span.

The PX6000 Series uses solid state media isolation for improved reliability. Thin films of chemically inert materials are deposited or grown on the chip surface to provide electrical isolation between the sensor and the pressure medium. The sensor is less sensitive to vibration and more dependable in high-shock environments because the films add no significant mass. Corrosion resistance is outstanding, and the isolation will remain effective because there is no gel or oil column to deteriorate.

SPECIFICATIONS

Excitation: 16 to 38 Vdc unregulated Output: 0 to 5 Vdc ±0.1Vdc

adjustable ±10% FSO

Input Current:

15 mA maximum with no load

Output Resistance: Less than 200 Ω

Zero Balance: 0V ±0.1 Vdc Adjustable ±5% FSO

Dielectric Isolation Resistance:

100 M Ω minimum at 45 Vdc applied between the case or a conductive medium and the bridge circuit

Sensing Element: 4-active-arm bridge using a micro-machined diffused silicon specified tolerances diaphragm sensor, thin-film media and dielectric isolation barriers

Temperature Sensor: Output resistance @ 24°C (75°F) 900 to 1500 Ω

Temperature Coefficient:

8% min, 10% maximum per 55.5°C (100°F)

Accuracy: Combined linearity, hysteresis and repeatability ≤ ±0.25% FSO for all ranges

Operational Temp Range: -54 to 121°C (-65 to 250°F)

Compensated Temp Range:

-18 to 82°C (0 to 180°F)

Thermal Effects:

Span: ≤±0.03% FSO/°F (0.054%/°C) Zero: ≤±0.03% FSO/°F (0.054%/°C)

Vibration Sensitivity: At 20 g peak sinusoidal vibration from 10 Hz to 2000 Hz (½" D.A.), the output shall not exceed 0.04% FSO/g for 15 psi range to 0.005% FSO/g for 100 psi and above

Natural Frequency: Greater than 35 kHz for 7 bar (100 psi) and above

Shock: 100 g, 11 ms half sine wave without damage

Proof Pressure:

2 times rated pressure will not cause changes in performance beyond the

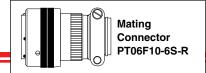
Burst Pressure: 3 times rated pressure for pressure ranges below 14 bar (200 psi), or 2.5 times rated pressure for pressure ranges above 200 psi will not cause rupture of the pressure sensor

Wetted Parts: 316 stainless steel, silicon, Pyrex® glass, epoxy, Kovar® **Electrical Connection:** See Custom

Configurations, next page Pressure Port: See Custom Configurations, next page Weight: 170 g (6 oz) typical Mating Connector (Style 1):

ELECTRICAL CONNECTION BENDIX PTIH-10-6P OR EQUIV. MATES WITH BENDIX PT06F10-6S-R OR EQUIV. (NOT SUPPLIED) ALSO AVAILABLE: INTEGRAL 0.6 m (24") CABLE DIN Pin Wire Code RED = + Input GRN = + Output BLUE = Common 3 В WT = Common
BLK = Temp. Sensor
ORG = Temp. Sensor E Shield = N/C IDENTIFIED IN THIS AREA PXM02 18 (0.71) HEX 17.5 (0.69) WRENCH FLATS 60 MAX 38 DIA (1.51) MAX. PRESSURE PORT 6.4 ±0.25 Dimensions: mm (inch) (0.25 ±0.01) FLATS

DIFFUSED SEMICONDUCTOR TRANSDUCER

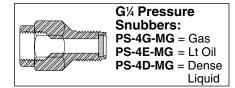


STANDARD CUSTOM CONFIGURATIONS

PX6000	RANGE (psi) [3] 30* 015 020 050 100 200 300	UNITS [4] VAC G,A G,A G,A G,A G,A	OUTPUT [5] 5T = 0 to 5 Vdc output	CALIBRATION OPTION [6] CAL11 = 11-point NIST calibration additional cost [7] CABLE LENGTH -XXXFT ple when selection [2] = 0 **
0 = 0.6 m (2") cable (std) additional cost/ft over 0.6 m (2 1 = PTIH-10-6P connector (or equal, no charge). Mating connector (sold separately), order PT06F10-6S-R. 6 = mini DIN connector (no charge) (no temp sensor)	- 30 Va all oth		To order a control of the control of	ctrical connection ressure range essure units

Ordering Examples: PX6000M1-100G5T, 100 psi vented gage pressure transducer with MS33649-4, female pressure connection, PTIH-10-6P, electrical connector and 0 to 5 V output. PT06F10-6S-R, mating connector (sold separately).

PX6000A0-30VAC5T-25FT, 30 to 0 inHg vacuum transducer with a ½-27 NPT male pressure connection, a reverse-acting (30 inHg vacuum = full scale output) 0 to 5 output, and 7.6 m (25') cable. PX6000L1-015A5T, 15 psi absolute pressure transducer with MS33656-4, male pressure connection, PTIH-10-6P, electrical connector and 0 to 5 Vdc output. PT06F10-6S-R, mating connector (sold separately).



METRIC CUSTOM CONFIGURATIONS

PXM6000 PRESSURE ELECTRICAL CONNECTION [1] [2]	RANGE (BAR) [3]	UNITS [4]	О UТР UТ [5]	CALIBRATION OPTION [6]
MA = G%B Male additional cost MB = G%B Female no charge MC = G%B Male additional cost MD = G%B Female no charge	1.0 1.6 4.0 6.0	G,A G,A G,A G,A	5T = 0 to 5 Vdc output	CAL11 = 11-point NIST calibration additional cost [7] CABLE LENGTH
0 = 0.6 m (2') cable (std) additional cost/m over 0.6 m (2')	10 16	G,A G,A	** availab	-XXXM le when selection [2] = 0 **
1 = PTIH-10-6P connector (or equal, no charge) 6 = mini DIN connector (no charge) (no temp sensor)			1. Select a per control of the contr	ctrical connection
Visit us online for additional options incl	uding		4. Select pre5. Select out	ressure range ssure units – absolute, gage put ions and agency approvals
extended compensated temperatures.	J		7. Select ext	ra length cable

Ordering Examples: PXM6000MB0-010BARG5T, 10 bar gage pressure transducer with $G^{1/6}B$ female connection and 0.6 m (2') cable termination, 0 to 5V output.

PXM6000MD1-010BARA5T, 10 bar absolute pressure transducer with G¹/₄B female connection, 0 to 5V output, and twist-lock connector. PT06F10-6S-R, mating connector (sold separately).

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style.



STANDARD MODELS

To Order			
MODELS WITH 0 TO	5 VDC OUTPUT, ¼NPT-M	PRESSURE CONNECTION	
	ANGE	MODEL NO.	COMPATIBLE METERS**
VACUUM			
30 to 0 inHg	102 to 0 kPa	PX6000C[*]1-30VAC5T	DP41-E, DP25B-E, DP24-E
ABSOLUTE PRESSU	JRE		
0 to 15 psi	0 to 1.0 bar	PX6000C[*]-015A5T	DP41-E, DP25B-E, DP24-E
0 to 20 psi	0 to 1.4 bar	PX6000C[*]-020A5T	DP41-E, DP25B-E, DP24-E
0 to 50 psi	0 to 3.4 bar	PX6000C[*]-050A5T	DP41-E, DP25B-E, DP24-E
0 to 100 psi	0 to 6.9 bar	PX6000C[*]-100A5T	DP41-E, DP25B-E, DP24-E
0 to 200 psi	0 to 13.8 bar	PX6000C[*]-200A5T	DP41-E, DP25B-E, DP24-E
0 to 300 psi	0 to 20.7 bar	PX6000C[*]-300A5T	DP41-E, DP25B-E, DP24-E
GAGE PRESSURE			
0 to 15 psi	0 to 1.0 bar	PX6000C[*]-015G5T	DP41-E, DP25B-E, DP24-E
0 to 20 psi	0 to 1.4 bar	PX6000C[*]-020G5T	DP41-E, DP25B-E, DP24-E
0 to 50 psi	0 to 3.4 bar	PX6000C[*]-050G5T	DP41-E, DP25B-E, DP24-E
0 to 100 psi	0 to 6.9 bar	PX6000C[*]-100G5T	DP41-E, DP25B-E, DP24-E
0 to 200 psi	0 to 13.8 bar	PX6000C[*]-200G5T	DP41-E, DP25B-E, DP24-E
0 to 300 psi	0 to 20.7 bar	PX6000C[*]-300G5T	DP41-E, DP25B-E, DP24-E

Comes complete with 5-point NIST traceable calibration.

Ordering Examples: PX6000C1-050G5T, 50 psi gage pressure transducer with 0 to 5 Vdc output, PTIH-10-6P electrical connection and MS33656-4 male pressure port. PT06F10-6S-R, mating connector (sold separately).

PX6000C1-015A5T, 15 psi absolute pressure transducer with 0 to 5 Vdc output, PTIH-10-6P electrical connection and MS33656-4 male pressure port. PT06F10-6S-R, mating connector (sold separately).

ACCESSORY

MODEL NO.	DESCRIPTION
PT06F10-6S-R	Mating connector for PX6000 Series units with twist-lock connector

METRIC MODELS

WETHIC WODELS			
MODELS WITH G1/4 I	MALE PRESSURE CONNI	ECTION, CABLE OR CONNECTOR AND 0	TO 5 VDC OUTPUT
R/	ANGE	MODEL NO.	COMPATIBLE METERS**
ABSOLUTE PRESS	SURE		
0 to 1 bar	0 to 15 psi	PXM6000MC[*]-001BARA5T	DP41-E, DP25B-E
0 to 1.60 bar	0 to 23 psi	PXM6000MC[*]-1.60BARA5T	DP41-E, DP25B-E
0 to 4 bar	0 to 58 psi	PXM6000MC[*]-004BARA5T	DP41-E, DP25B-E
0 to 6 bar	0 to 87 psi	PXM6000MC[*]-006BARA5T	DP41-E, DP25B-E
0 to 10 bar	0 to 145 psi	PXM6000MC[*]-010BARA5T	DP41-E, DP25B-E
0 to 16 bar	0 to 232 psi	PXM6000MC[*]-016BARA5T	DP41-E, DP25B-E
GAGE PRESSURE			
0 to 1 bar	0 to 15 psi	PXM6000MC[*]-001BARG5T	DP41-E, DP25B-E
0 to 1.60 bar	0 to 23 psi	PXM6000MC[*]-1.60BARG5T	DP41-E, DP25B-E
0 to 4 bar	0 to 58 psi	PXM6000MC[*]-004BARG5T	DP41-E, DP25B-E
0 to 6 bar	0 to 87 psi	PXM6000MC[*]-006BARG5T	DP41-E, DP25B-E
0 to 10 bar	0 to 145 psi	PXM6000MC[*]-010BARG5T	DP41-E, DP25B-E
0 to 16 bar	0 to 232 psi	PXM6000MC[*]-016BARG5T	DP41-E, DP25B-E
0 to 25 bar	0 to 363 psi	PXM6000MC[*]-025BARG5T	DP41-E, DP25B-E

Comes complete with 5-point NIST traceable calibration.

Ordering Examples: PXM6000MC0-010BARG5T, 10 bar gage pressure transducer with 0 to 5 Vdc output, 0.6 m (2') cable and G1/4 male pressure port.

PXM6000MC6-01.6BARA5T, 1.6 bar absolute pressure transducer with 0 to 5 Vdc output, mini DIN electrical connector and G1/4 male pressure port. Mating connector included.

^[*] Insert "0" for 0.6 m cable, "1" for twist-lock connector or "6" for mini DIN connector.

^{**} Visit us online for compatible meters.

^[*] Insert "0" for 0.6 m cable, "1" for twist-lock connector or "6" for mini DIN connector.

^{**} Visit us online for compatible meters.

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STANDARD AND METRIC MODELS

4 to 20 mA Output 0-15 to 0-300 psi-Standard Models 0-1 to 0-25 bar-Metric Models

PX6000/PXM6000 Series



- High Reliability
- Long-Term Stability
- ✓ All Stainless Steel Case
- ✓ Vacuum Range Available
- Built-In Temperature Sensor

Applications

- Automotive Testing
- Research and **Development**
- ✓ Engineering Testing and Evaluation
- Production Testing
- Flight Recorders
- Engine Monitoring
- Ground Support **Equipment**

The Omega™ PX6000/PXM6000 Series pressure transducers fit easily into many applications. These low-cost transducers are small and light, and mounting requires no bulky structures. Users can select from 3 electrical terminations and 6 pressure fittings. The sensor is a small [about 2.54 mm (0.1") square] silicon chip, with 4 diffused strain gages mounted in the stainless steel case. Laser-trimmed resistors provide temperature compensation and adjust zero balance and span. The 4 to 20 mA output easily interfaces with most control and data acquisition systems. The PX6000/PXM6000 uses solid state media isolation for improved reliability. Thin films of chemically inert materials are deposited

provide electrical isolation between the sensor and pressure medium. These sensors are less sensitive to vibration and more dependable in high-shock environments because the films add no significant mass. Corrosion resistance is outstanding, and the isolation will remain effective because there are no gel or oil columns to deteriorate.

SPECIFICATIONS

Excitation: 10 to 40 Vdc unregulated Output: 4 to 20 mA adjustable ±10% FS

Load Impedance (Maximum): 50 x (V - 10) Ω where V = supply voltage (40 Vdc maximum)

Zero Balance:

4 mA adjustable ±10% FS

Dielectric Isolation Resistance:

100 MΩ minimum at 45 Vdc applied between the case or a conductive medium and the bridge circuit

Sensing Element:

4-active-arm bridge using a micromachined diffused silicon diaphragm sensor, thin-film media and dielectric isolation barriers

Temperature Sensor: Output resistance @ 24°C (75°F) 900 to 1500

Temperature Coefficient:

8% minimum, 10% maximum per 55.5°C (100°F)

Accuracy: Combined linearity, hysteresis and repeatability ≤±0.25% FS for all ranges

Operating Temp Range: -29 to 85°C (-20 to 185°F)

Compensated Temp Range: -29 to 85°C (-20 to 185°F)

Thermal Effects:

Span: ≤±0.02% of FS/°F **Zero:** ≤±0.02% of FS/°F

Vibration Sensitivity: At 20 g peak sinusoidal vibration from 10 to 2000 Hz (/2" D.A.), the output shall not exceed

Natural Frequency: Greater than 35 kHz for 100 psi and above

Shock: 100 g, 11 ms half sine wave without damage

TANDARD PX6000L1-100GI, shown actual size.

Proof Pressure: 2 times rated pressure will not cause changes in performance beyond the specified tolerances

Twist-lock

style.

Burst Pressure: 3 times rated pressure for pressure ranges below 200 psi, or 2.5 times rated pressure for pressure ranges above 200 psi, will not cause rupture of the pressure sensor

Wetted Parts: 316 stainless steel, silicon, Pyrex® glass, epoxy, Kovar® Electrical Connection: PTIH-10-6P

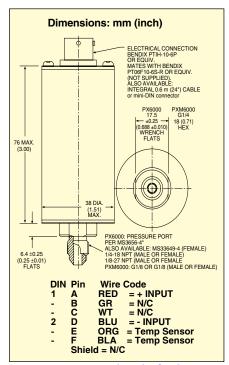
(standard) or 0.6 m (2') cable or mini-DIN connector

Pressure Port: See dimensional drawing

below

Weight: 170 g (6 oz) typical

Mating Connector: PT06F10-6S-R (sold separately)



or grown on the chip surface to

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DIFFUSED SEMICONDUCTOR PRESSURE TRANSMITTER

STANDARD CUSTOM CONFIGURATIONS

PX6000 PRESSURE ELECTRICAL CONNECTION [1] [2] A = %-27 NPT male B = %-27 NPT female C = ¼-18 NPT male D = ¼-18 NPT female L = MS33656-4 male M = MS33649-4 female	RANGE (psi) [3] 30* 015 020 050 100 200 300	UNITS [4] VAC A,G A,G A,G A,G A,G A,G	OUTPUT [5] I = 4 to 20 mA output ** ava	CALIBRATION OPTION [6] CAL11 = 11-point NIST calibration additional cost [7] CABLE LENGTH -XXXFT ilable when selection [2] = 0 **
0 = 0.6 m (2") Teflon cable (std) additional cost/ft over 0.6 m (2 1 = PTIH-10-6P connector (or equal, no charge). Mating connector (sold separately), order PT06F10-6S-R 6 = mini DIN connector (no charge) (no temp sensor)	- 30 Va all oth		To order a cur 1. Select a pre 2. Select electr 3. Select a pre 4. Select press 5. Select output	rical connection ssure range sure units it ns and agency approvals

Ordering Examples: PX6000M1-100GI, 100 psi vented gage pressure transducer with MS33649-4, female pressure connection, PT1H-10-6P electrical connector, 4 to 20 mA output. PT06F10-6S-R, mating connector (sold separately). PX6000L1-015AI, 15 psi absolute pressure transducer with MS33656-4, male pressure connection, PTIH-10-6P, electrical connector and 4 to 20 mA output. PT06F10-6S-R, mating connector (sold separately).

METRIC CUSTOM CONFIGURATIONS

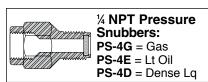
PXM6000 PRESSURE CONNECTION [1] [2] MA = G¼B Male additional cost MB = G¼B Female no charge MC = G¼B Male additional cost MD = G¼B Female no charge 0 = 0.6 m (2') Teflon cable (std) additional cost/ft	RANGE (BAR) [3] -1 1.0 1.6 4.0 6.0 10 16 25	UNITS [4] VACG A,GG A,GG A,GG A,GG	OUTPUT [5] I = 4 to 20 mA ** ava	CALIBRATION OPTION [6] CAL11 = 11-point NIST calibration additional cost [7] CABLE LENGTH -XXXM iilable when selection [2] = 0 **
over 0.6 m (2') 1 = PTIH-10-6P connector (or equal, no charge) Mating connector (sold separately), order PT06F10-6S-R 6 = mini DIN connector (no charge) no temp sensor	25	A, G	 Select a pre Select elect Select a pre Select pres Select outp 	rical connection essure range sure units – absolute, gage ut ns and agency approvals

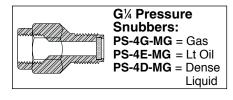
Ordering Examples: PXM6000MB0-010BARGI, 10 bar gage pressure transducer with $G^{1}/_{e}B$ female connection and 0.6 m (2') cable termination.

PXM6000MD1-010BARAI, 10 bar absolute pressure transducer with $G^{1/4}B$ female connection and twist-lock connector. **PT06F10-6S-R,** mating connector (sold separately).



METRIC PXM6000MC1-010BARAI, shown actual size.





ACCESSORY

MODEL NO.	DESCRIPTION
PT06 <i>F</i> 10-6S-R	Mating connector for PX6000 units with PTIH-10-6P electrical connection

STANDARD MODELS

To Order					
Models with 4	Models with 4 to 20 mA Output, ¼ NPT-M Pressure Connection, Integral Connector				
RAN	NGE	MODEL NO.	COMPATIBLE METERS*		
VACUUM					
30 to 0 inHg	102 to 0 kPa	PX6000L[*]-30VACI	DP41-E, DP25B-E, DP24-E		
ABSOLUTE	PRESSURE				
0 to 15 psi	0 to 1.0 bar	PX6000L[*]-015AI	DP41-E, DP25B-E, DP24-E		
0 to 20 psi	0 to 1.4 bar	PX6000L[*]-020AI	DP41-E, DP25B-E, DP24-E		
0 to 50 psi	0 to 3.4 bar	PX6000L[*]-050AI	DP41-E, DP25B-E, DP24-E		
0 to 100 psi	0 to 6.9 bar	PX6000L[*]-100AI	DP41-E, DP25B-E, DP24-E		
0 to 200 psi	0 to 13.8 bar	PX6000L[*]-200AI	DP41-E, DP25B-E, DP24-E		
0 to 300 psi	0 to 20.7 bar	PX6000L[*]-300AI	DP41-E, DP25B-E, DP24-E		
GAGE PRES	SURE				
0 to 15 psi	0 to 1.0 bar	PX6000L[*]-015GI	DP41-E, DP25B-E, DP24-E		
0 to 20 psi	0 to 1.4 bar	PX6000L[*]-020GI	DP41-E, DP25B-E, DP24-E		
0 to 50 psi	0 to 3.4 bar	PX6000L[*]-050GI	DP41-E, DP25B-E, DP24-E		
0 to 100 psi	0 to 6.9 bar	PX6000L[*]-100GI	DP41-E, DP25B-E, DP24-E		
0 to 200 psi	0 to 13.8 bar	PX6000L[*]-200GI	DP41-E, DP25B-E, DP24-E		
0 to 300 psi	0 to 20.7 bar	PX6000L[*]-300GI	DP41-E, DP25B-E, DP24-E		

Comes complete with 5-point NIST traceable calibration.

[*] = Insert "0" for 0.6 m (2') cable, "1" for twist-lock connector, or "6" for mini DIN connector. Ordering Examples: PX6000L1-050GI, 50 psi gage pressure transducer with 4 to 20 mA output, PTIH-10-6P, electrical connector and MS33656-4, male pressure port. PT06F10-6S-R, mating connector (sold separately).

PX6000L1-015AI, 15 psi absolute pressure transducer with 4 to 20 mA output, PTIH-10-6P electrical connector and MS33656-4, male pressure port. **PT06F10-6S-R**, mating connector (sold separately).

METRIC MODELS

Models with G ¼ Male Pressure Connection, Cable or mini DIN and 4 to 20 mA Output				
RAN	GE	MODEL NO.	COMPATIBLE METERS*	
ABSOLUTE	PRESSURE			
0 to 1 bar	0 to 15 psi	PXM6000MC[*]-001BARAI	DP41-S, DP25B-S	
0 to 1.60 bar	0 to 23 psi	PXM6000MC[*]-1.60BARAI	DP41-S, DP25B-S	
0 to 4 bar	0 to 58 psi	PXM6000MC[*]-004BARAI	DP41-S, DP25B-S	
0 to 6 bar	0 to 87 psi	PXM6000MC[*]-006BARAI	DP41-S, DP25B-S	
0 to 10 bar	0 to 145 psi	PXM6000MC[*]-010BARAI	DP41-S, DP25B-S	
0 to 16 bar	0 to 232 psi	PXM6000MC[*]-016BARAI	DP41-S, DP25B-S	
GAGE PRES	SURE			
0 to 1 bar	0 to 15 psi	PXM6000MC[*]-001BARGI	DP41-S, DP25B-S	
0 to 1.60 bar	0 to 23 psi	PXM6000MC[*]-1.60BARGI	DP41-S, DP25B-S	
0 to 4 bar	0 to 58 psi	PXM6000MC[*]-004BARGI	DP41-S, DP25B-S	
0 to 6 bar	0 to 87 psi	PXM6000MC[*]-006BARGI	DP41-S, DP25B-S	
0 to 10 bar	0 to 145 psi	PXM6000MC[*]-010BARGI	DP41-S, DP25B-S	
0 to 16 bar	0 to 232 psi	PXM6000MC[*]-016BARGI	DP41-S, DP25B-S	
0 to 25 bar	0 to 363 psi	PXM6000MC[*]-025BARGI	DP41-S, DP25B-S	

Comes complete with 5-point calibration.

[*] = Insert "0" for 0.6 m (2') cable, "1" for twist-lock connector, or "6" for mini DIN connector. **Ordering Example: PXM6000MC0-004BARGI,** 4 bar gage pressure transmitter with 4 to 20 mA output, 0.6 m (2') cable and G ¼ male pressure port.

^{*} Visit us online for compatible meters.

^{*} Visit us online for compatible meters.

GAGE, VACUUM, OR COMPOUND RANGES RUGGED STAINLESS STEEL CONSTRUCTION

Vacuum to 20,000 psi (1380 bar)

PX603/PX613 Series



✓ Excellent Long-**Term Stability**

✓ NEMA 4 (IP65) Cable or Connector Models

✓ 0.4% Accuracy

✓ Thin-Film Design for High Reliability

✓ Ideal for Liquid or Gas

Zero and Span **Adjustments**

SPECIFICATIONS

Excitation: 10 to 36 Vdc unregulated

Output: 1 to 5 Vdc (3 wire) Supply Current: <3.0 mA Insulation Resistance: 100 MΩ @ 50V

Accuracy: ±0.4% BFSL

Hysteresis: ±0.2% full scale Repeatability: ±0.05% full scale

Stability: ±1.0%/year Durability: 100 million cycles Operating Temperature: -48 to 90°C (-55 to 195°F) **Compensated Temperature:**

-29 to 82°C (-20 to 180°F) Thermal Zero Effect: ±0.07%

full scale/°C

Thermal Span Effect: ±0.07%

full scale/°C

Proof Pressure:

15 to 2000 psi = 200% full scale **3000 to 5000 psi** = 150% full scale **7500 to 20,000 psi** = 120% full scale **Burst Pressure: 15 to 2000 psi** = 800% full scale **3000 to 5000 psi** = 500% full scale **7500 to 20,000 psi** = 500% full scale

PS-4 snubber, sold

separately.

Gages: Thin-film polysilicone Diaphragm: 17-4 PH stainless steel Case: 300 Series stainless steel

Pressure Connection: 15 to 10,000 psi = $\frac{1}{4}$ NPT 15,000 and 20,000 psi = female

Aminco fittina

PX613-100G5V twist-lock style,

shown smaller

than actual size.

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PT06F8-4S connector, sold separately.

> PX603-3KG5V cable style. shown smaller than actual size.

Metric thread adaptors available, see omega.com

1/4 NPT Pressure Snubbers:

PS-4G = Gas PS-4E = Lt Oil **PS-4D** = Dense Lq

Electrical Connection: 0.9 m (36") braided-shield PVC cable or connector Mating Connector: PT06F8-4S

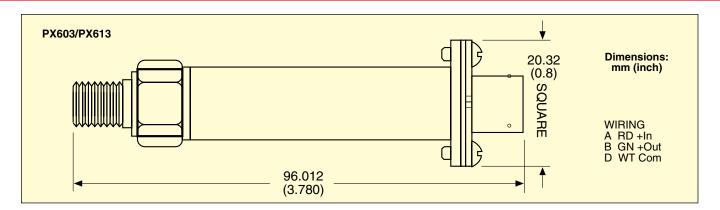
(sold separately)

Weight: 128 g (4.5 oz) without cable

Response Time: 5 ms

Construction: Sealed units, except PX603 ≤500 psi is vented to room

THIN-FILM TRANSDUCERS



To Order			
RANGE [†]	bar	MODEL NO. [*] INSERT 0 or 1	COMPATIBLE METERS**
Vacuum to 0 psig	-1 to 0	PX6[*]3-30VAC5V	DP3002-E, DP41-E, DP25B-E
Vacuum to 15 psig	-1 to 1.0	PX6[*]3-30V15G5V	DP3002-E, DP41-E, DP25B-E
Vacuum to 30 psig	-1 to 2.1	PX6[*]3-30V30G5V	DP3002-E, DP41-E, DP25B-E
Vacuum to 60 psig	-1 to 4.1	PX6[*]3-30V60G5V	DP3002-E, DP41-E, DP25B-E
0 to 15 psig	0 to 1.0	PX6[*]3-015G5V	DP3002-E, DP41-E, DP25B-E
0 to 30 psig	0 to 2.1	PX6[*]3-030G5V	DP3002-E, DP41-E, DP25B-E
0 to 60 psig	0 to 4.1	PX6[*]3-060G5V	DP3002-E, DP41-E, DP25B-E
0 to 100 psig	0 to 6.9	PX6[*]3-100G5V	DP3002-E, DP41-E, DP25B-E
0 to 150 psig	0 to 10.3	PX6[*]3-150G5V	DP3002-E, DP41-E, DP25B-E
0 to 200 psig	0 to 13.8	PX6[*]3-200G5V	DP3002-E, DP41-E, DP25B-E
0 to 300 psig	0 to 20.7	PX6[*]3-300G5V	DP3002-E, DP41-E, DP25B-E
0 to 500 psig	0 to 34.5	PX6[*]3-500G5V	DP3002-E, DP41-E, DP25B-E
0 to 1000 psig	0 to 68.9	PX6[*]3-1KG5V	DP3002-E, DP41-E, DP25B-E
0 to 2000 psig	0 to 138	PX6[*]3-2KG5V	DP3002-E, DP41-E, DP25B-E
0 to 3000 psig	0 to 207	PX6[*]3-3KG5V	DP3002-E, DP41-E, DP25B-E
0 to 5000 psig	0 to 345	PX6[*]3-5KG5V	DP3002-E, DP41-E, DP25B-E
0 to 7500 psig	0 to 517	PX6[*]3-7.5KG5V	DP3002-E, DP41-E, DP25B-E
0 to 10,000 psig	0 to 689	PX6[*]3-10KG5V	DP3002-E, DP41-E, DP25B-E
0 to 15,000 psig	0 to 1034	PX6[*]3-15KG5V [†]	DP3002-E, DP41-E, DP25B-E
0 to 20,000 psig	0 to 1379	PX6[*]3-20KG5V [†]	DP3002-E, DP41-E, DP25B-E

Comes complete with operator's manual.

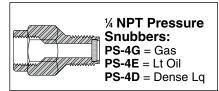
Ordering Examples: PX603-500G5V, cable-style transducer with 1 to 5 Vdc output and range of 0 to 500 psi.

PX613-500G5V, connector-style transducer with 1 to 5 Vdc output and range of 0 to 500 psi.

PT06F8-4S, mating connector (sold separately).

ACCESSORIES

MODEL NO.	DESCRIPTION
PT06F8-4S	Mating connector for PX613 Series transducers
PS-4D	Pressure snubber, for oil, 225 to 500 SSU (10 to 50 SAE)
PS-4E	Pressure snubber, for water and light oil, 30 to 225 SSU
PS-4G	Pressure snubber, for air, stream and gases



^{**} See omega.com/meters for compatible meters.

^{†15,000} and 20,000 psi models supplied with female Aminco fitting.

^[*] Insert "0" for cable style, "1" for connector style.

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PRESSURE TRANSDUCER 1/4 NPT PRESSURE CONNECTION

mV/V Output 0-50 to 0-5000 psi 0-3.4 to 0-345 bar

PX61C SeriesAll Ranges



- Miniature Flush Diaphragm
- Flush Diaphragm for Precise Measurements
- ✓ All Welded Construction

SPECIFICATIONS

Excitation: 5 Vdc

Output Range: 2 mV/V -30% +50% (For 50 PSI, 1 mV/V -30% +50%) Bridge Resistance: 350Ω nominal Zero Balance: $\pm 3.0\%$ of FSO Accuracy: 1.0% linearity and hysteresis combined; calibrated at 0%, 50%, 100%, 50%, 0% Repeatability: 0.1% of FSO Operating Temperature Range:

Operating Temperature Range: -54 to 121°C (-65 to 250°F)

Compensated Temperature Range: 16 to 71°C (60 to 160°F)

Thermal Effects: Zero: +0.01% FS/

Zero: ±0.01% FS/°F **Span:** ±0.02% FSO/°F

Proof Pressure: 150% of capacity **Burst Pressure:** 500% of capacity or 10,000 psi, whichever is less

Electrical Connections: PTIH-10-6P

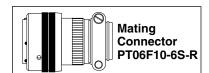
connector

Mating Connector: PT06F10-6S-R

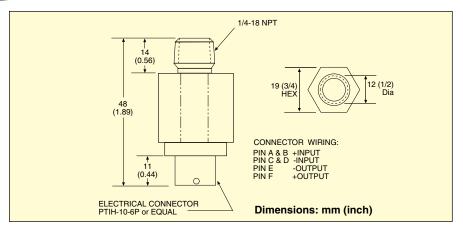
(sold separately)

Pressure Connection: ¼-18 NPT Wetted Parts: 17-4 PH stainless steel

Weight: 50 g (0.55 oz)







To Order			
RANGE		MODEL NO.	COMPATIBLE METERS*
ABSOLUTE P	RESSURE (AI	l Ranges Available	in Absolute Pressure)
0 to 50 psi	0 to 3.4 bar	PX61C1-050AV	DP41-S, DP25B-S
0 to 100 psi	0 to 6.9 bar	PX61C1-100AV	DP41-S, DP25B-S
GAGE PRESS	SURE (All Ran	ges Also Available	in Sealed Gage Pressure)
0 to 50 psi	0 to 3.4 bar	PX61C1-050GV	DP41-S, DP25B-S
0 to 100 psi	0 to 6.9 bar	PX61C1-100GV	DP41-S, DP25B-S
0 to 200 psi	0 to 13.8 bar	PX61C1-200GV	DP41-S, DP25B-S
0 to 300 psi	0 to 20.7 bar	PX61C1-300GV	DP41-S, DP25B-S
0 to 500 psi	0 to 34.5 bar	PX61C1-500GV	DP41-S, DP25B-S
0 to 1000 psi	0 to 68.9 bar	PX61C1-1KGV	DP41-S, DP25B-S
0 to 2500 psi	0 to 172 bar	PX61C1-2.5KGV	DP41-S, DP25B-S
0 to 4000 psi	0 to 276 bar	PX61C1-4KGV	DP41-S, DP25B-S
0 to 5000 psi	0 to 345 bar	PX61C1-5KGV	DP41-S, DP25B-S

Comes complete with 5-point NIST-traceable calibration.

To order sealed gage pressure models, replace "**G**" in model number with "**S**" (no extra charge). To order absolute pressure models, replace "**G**" in model number with "**A**" (no extra charge).

Ordering Examples: PX61C1-100AV, 100 psi absolute pressure transducer with PTIH-10-6P electrical connection and $\frac{1}{4}$ -18 NPT male pressure port. **PT06F10-6S-R**, mating connector (sold separately).

PX61C1-100SV, 100 psi sealed gage pressure transducer with PTIH-10-6P electrical connection and ½-18 NPT male pressure port. **PT06F10-6S-R**, mating connector (sold separately).

ACCESSORY

MODEL NO. DESCRIPTION

PT06F10-6S-R Mating connector for PX61C series transducers

^{*} Visit us online for compatible meters. Metric ranges available – Consult Engineering.

PRESSURE TRANSDUCER 1/2-20 UNF PRESSURE CONNECTION

mV/V Output 0-50 to 0-15,000 psi 0-3 to 0-1000 bar

PX61V Series All Ranges



Standard



- ✓ All Stainless Steel Construction
- Available in psia, psis, psig, and Metric Ranges

SPECIFICATIONS

Output Range: 2 mV/V -30% +50% (For 50 PSI, 1 mV/V -30% +50%) Accuracy: 1.0% linearity and

hysteresis combined

Excitation: 5 Vdc

Repeatability: ±0.1% of FSO Balance: ±3.0% of FSO

Bridge Resistance: 350 Ω nominal **Operating Temperature Range:** -54 to 121°C (-65 to 250°F)

Compensated Temperature Range: 16 to 71°C (60 to 160°F)

Thermal Effects:

Zero: ±0.01% FS/°F Span: ±0.02% FSO/°F

Proof Pressure: 150% of capacity **Burst Pressure Minimum:** 300% of capacity or 30,000 psi,

whichever is less

Electrical Connections: 1.5 m (5'); 4-conductor cable or PTIH-10-6P

connector

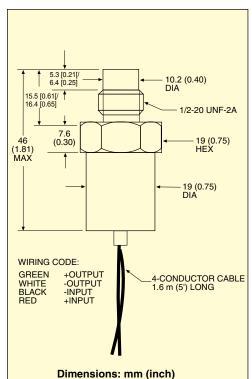
Pressure Connection: ½-20 UNF-2A Wetted Parts: 17-4 PH stainless steel

ACCESSORY

MODEL NO.	DESCRIPTION
PT06F10-6S-R	Mating connector for PX61V1series transducers







To Order	
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10 Oluci					
RANGE		MODEL NO.	COMPATIBLE METERS**		
ABSOLUTE PRESSURE (All Ranges Available in Absolute Pressure)					
0 to 50 psi	0 to 3.4 bar	PX61V[+]-050AV	DP41-S, DP25B-S		
0 to 100 psi	0 to 6.9 bar	PX61V[*]-100AV	DP41-S, DP25B-S		
GAGE PRESSURE (All Ranges Also Available in Sealed Gage Pressure)					
0 to 50 psi	0 to 3.4 bar	PX61V[+]-050GV	DP41-S, DP25B-S		
0 to 100 psi	0 to 6.9 bar	PX61V[*]-100GV	DP41-S, DP25B-S		
0 to 150 psi	0 to 10.3 bar	PX61V[*]-150GV	DP41-S, DP25B-S		
0 to 200 psi	0 to 13.8 bar	PX61V[*]-200GV	DP41-S, DP25B-S		
0 to 300 psi	0 to 20.7 bar	PX61V[*]-300GV	DP41-S, DP25B-S		
0 to 500 psi	0 to 34.5 bar	PX61V[*]-500GV	DP41-S, DP25B-S		
0 to 1000 psi	0 to 68.9 bar	PX61V[*]-1KGV	DP41-S, DP25B-S		
0 to 2500 psi	0 to 172 bar	PX61V[*]-2.5KGV	DP41-S, DP25B-S		
0 to 5000 psi	0 to 345 bar	PX61V[*]-5KGV	DP41-S, DP25B-S		
0 to 10,000 psi	0 to 689 bar	PX61V[*]-10KGV	DP41-S, DP25B-S		
0 to 15,000 psi	0 to 1034 bar	PX61V[*]-15KGV	DP41-S, DP25B-S†		

Comes complete with 5-point NIST-traceable calibration. Engineering.

Metric ranges available - Consult

† 4-digit meter, counts in increments of 10. ** Visit us online for compatible meters. [*] To order cable style insert "0", to order connector style insert "1". To order psia models, replace "G" in model number with "A".

To order psis models, replace "G" in model number with "S".

Ordering Examples: PX61V0-100AV, 100 psi absolute pressure transducer with 1.5 m (5') cable and ½-20 UNF male pressure port.

PX61V0-100SV, 100 psi sealed gage pressure transducer with 1.5 m (5') cable and ½-20 UNF male pressure port.

High Accuracy Submersible Pressure Transmitter

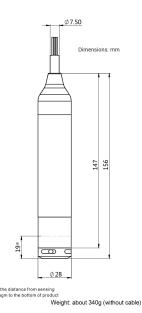
Product Details

PX633 Submersible Level Transmitter is designed for dealing with the most demanding level measurement conditions. The sensor adopts advanced microprocessor technology with comprehensive linear and temperature error compensation assuring the high precision measurements.

The probe employs full potting, reference tube condensation countermeasures, a dual seal design, and a rugged stainless steel body to assure long term reliability, performance, and stability. The signal transmitting module has transient voltage protection to assure operation under the harsh surge voltage environments (surge protection is not guaranteed and is not covered by warranty). An inverted cone seal extends working life of cable and transducer in conditions were the sensor may experience severe stress from turbulent process media. PX633 Submersible level transmitter is the optimal choice to satisfy all of high demand level measuring applications.



- Available with Accuracies of 0.5%, 0.25% and 0.1% of Full Scale
- Designed for Complete Submergibility
- Unique Cable Seal System Insures Water-Tight Integrity
- High Static Accuracy and Repeatability
- Fully Temperature Compensated
- CE Certificate Included
- 100% Computer Tested, Calibrated and Serialized
- Calibration Sheet Provided





Product Number	mber Pressure Range		Cable Length
PX633A1-003GI	0 to 3 psi	±0.1%	20' CABLE
PX633A1-005GI	0 to 5 psi	±0.1%	20' CABLE
PX633A1-015GI	0 to 15 psi	±0.1%	50' CABLE
PX633A1-030GI	0 to 30 psi	±0.1%	90' CABLE
PX633A1-100GI	0 to 100 psi	±0.1%	250' CABLE
PX633A1-150GI	0 to 150 psi	±0.1%	365' CABLE
PX633A1-250GI	0 to 250 psi	±0.1%	595' CABLE
PX633A1-300GI	0 to 300 psi	±0.1%	710' CABLE
PX633A2-003GI	0 to 3 psi	±0.25%	20' CABLE
PX633A2-005GI	0 to 5 psi	±0.25%	20' CABLE
PX633A2-015GI	0 to 15 psi	±0.25%	50' CABLE
PX633A2-030GI	0 to 30 psi	±0.25%	90' CABLE
PX633A2-100GI	0 to 100 psi	±0.25%	250' CABLE
PX633A2-150GI	0 to 150 psi	±0.25%	365' CABLE
PX633A2-250GI	0 to 250 psi	±0.25%	595' CABLE
PX633A2-300GI	0 to 300 psi	±0.25%	710' CABLE
PX633A5-003GI	0 to 3 psi	±0.5%	20' CABLE
PX633A5-005GI	0 to 5 psi	±0.5%	20' CABLE
PX633A5-015GI	0 to 15 psi	±0.5%	50' CABLE
PX633A5-030GI	0 to 30 psi	±0.5%	90' CABLE
PX633A5-100GI	0 to 100 psi	±0.5%	250' CABLE
PX633A5-150GI	0 to 150 psi	±0.5%	365' CABLE
PX633A5-250GI	0 to 250 psi	±0.5%	595' CABLE
PX633A5-300GI	0 to 300 psi	±0.5%	710' CABLE

Specifications

Turndown = nominal range of the device / set span of device EXAMPLE: a PX3005-1KWDWBI with set span of 500"H2O TD = 1000"H2O/500"H2O = 2

Accuracy:

20°C ± 5°C (68°F ± 9°) PX633A1: 0.01% FS NLHR PX633A2: 0.25% FS NLHR PX633A5: 0.50% FS NLHR

Long Term Stability:

±0.2% FS/ year

Ambient temperature effects (20°C to 80°C)

±0.2% FS/10K

Power Supply Effects:

± 0.005% FS/V (Zero and Span)

Load Effect:

 \pm 0.05% FS/k Ω (Zero and Span)

Vibration Effects:

IEC61298-3/GB/T 18271.3; 20g (5-2000HZ,

max<±3mm) <0.1% FS

Supply Voltage (U):

10.5 to 55VDC

Output Signal:

4 to 20mA DC

Load Resistance Ω :

<(U-10)/0.021

Maximum Current:

20.8mA

Transmission Distance:

< 1000m

Power Consumption:

500mW(20.8mA output @ 24VDC)

Operating Temperature:

-10 to 70°C (14 to 158°F)

Storage Temperature:

-30 to 80°C (- 22 to 176°F)

Protection Class:

IP68

Electrical Connection:

PUR cable, outer diameter (7.5±0.2)mm

Isolation Diaphragm Material:

316 SS

Fill Fluid:

Silicon oil

Sensor Seal:

O-ring, FMK

Side Cover Material / Diameter:

316 SS/ 28mm

EMC Environment:

GB/T 9254/CISPR22

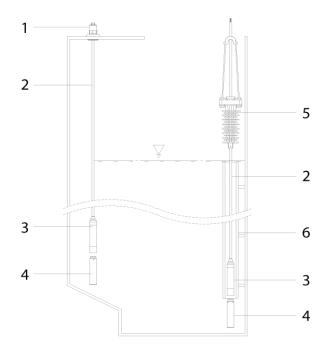
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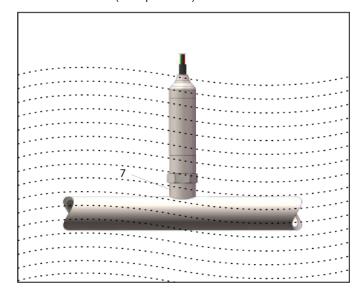
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GB/T 17626.4/IEC61000-4-4

GB/T 17626.5/IEC61000-4-5 GB/T 17626.6/IEC61000-4-6



- 1. Tank Cable Clamp, PX633-CLAMP
- 2. Transmitter Cable
- 3.Level transmitter
- 4. Counter weight, PX633-WEIGHT
- 5.Cable clamp hanger, PX633-HANGER
- 6. Protective Tube (user provided)



7. Thread Connection, PX633-M20, other threads avaliable

Nominal Cable lengths noted, tolerance is \pm 0.5m/1.5ft

PX653 Series



Standard



Clean Rooms

✓ HVAC

Laboratory **Fume Hoods**

SPECIFICATIONS

Excitation: 12 to 36 Vdc Output: 1 to 5 Vdc (3 wire) Linearity: 0.5% FS (BFSL) Hysteresis: 0.02% FS Repeatability: 0.05% FS Operating Temperature: -29 to 72°C (-20 to 160°F) **Compensated Temperature:** 2 to 57°C (35 to 135°F) Thermal Effects:

Zero: 0.015% FS/°F Span: 0.015% rdg/°F Proof Pressure: 15 psi Burst Pressure: 20 psi Static Pressure: 25 psi Gage Type: Capacitance Supply Current: <5 mA

Calibration Report: NIST cal at 25, 50, 75 and 100% FS; upscale and

downscale provided Response Time: 250 ms

Wetted Parts: Dry, clean, non-corrosive gases only

Enclosure: NEMA 2 (IP62)

Dimensions: 107 H x 117 W x 53 mm D

(4.2 x 4.6 x 2.1")

Pressure Port: 1/4 barbed fittings

(tubing TY-316-100)

Electrical Connections: Screw terminal

Weiaht: 368 a (13 oz)

TRANSMITTER HIGH ACCURACY PERISPEC RANGE 10" WC OUTPUT 1-5rde EXCITATION 12-36Vdc 90805044 APPLICATION SPAN ZERO PX653-10D5V, with DP3002-E meter. shown smaller than actual size. **CE OMEGA**

To Order				
RA	NGE			
inH ₂ O	Pa/kPa	MODEL NO.	COMPATIBLE METERS	
0 to 0.1	0 to 25	PX653-0.1D5V	DP25B-E, DP41-E, DP460-E	
0 to 0.25	0 to 62	PX653-0.25D5V	DP25B-E, DP41-E, DP460-E	
0 to 0.50	0 to 125	PX653-0.5D5V	DP25B-E, DP41-E, DP460-E	
0 to 0.75	0 to 187	PX653-0.75D5V	DP25B-E, DP41-E, DP460-E	
0 to 1	0 to 249	PX653-01D5V	DP25B-E, DP41-E, DP3002-E	
0 to 2	0 to 498	PX653-02D5V	DP25B-E, DP41-E, DP460-E	
0 to 3	0 to 748	PX653-03D5V	DP25B-E, DP41-E, DP460-E	
0 to 5	0 to 1.25	PX653-05D5V	DP25B-E, DP41-E, DP460-E	
0 to 10	0 to 2.49	PX653-10D5V	DP25B-E, DP41-E, DP3002-E	
0 to 25	0 to 6.23	PX653-25D5V	DP25B-E, DP41-E, DP460-E	
0 to 50	0 to 12.5	PX653-50D5V	DP25B-E, DP41-E, DP460-E	
BI-DIRECT	IONAL RANG	ES		
±0.1	25	PX653-0.1BD5V	DP25B-E, DP41-E, DP460-E	
±0.25	62	PX653-0.25BD5V	DP25B-E, DP41-E, DP460-E	
±0.50	125	PX653-0.5BD5V	DP25B-E, DP41-E, DP460-E	
±1	249	PX653-01BD5V	DP25B-E, DP41-E, DP460-E	
±2.5	623	PX653-2.5BD5V	DP25B-E, DP41-E, DP460-E	
±5	1.25	PX653-05BD5V	DP25B-E, DP41-E, DP460-E	
±10	2.49	PX653-10BD5V	DP25B-E, DP41-E, DP460-E	
±25	6.23	PX653-25BD5V	DP25B-E, DP41-E, DP460-E	
±50	12.5	PX653-50BD5V	DP25B-E, DP41-E, DP460-E	

Comes complete with NIST traceble calibration certificate and operator's manual. Ordering Examples: PX653-01D5V, 0 to 1 inH2O range with 1 to 5 Vdc output. **PX653-01BD5V**, ± 1 inH₂O range, 1 to 5 Vdc output with 0 = 3 Vdc.

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INDUSTRIAL TRANSDUCER

0-0.1 to 0-200 inH₂0 0-25 Pa to 0-50 kPa

PX654 Series





✓ Boiler Inlet Air Systems

✓ HVAC

✓ Industrial Fume Hoods

✓ Level Control

SPECIFICATIONS

Excitation: 12 to 36 Vdc Output: 1 to 5 Vdc

Linearity: 0.3% full scale (BFSL) Hysteresis: 0.02% full scale Repeatability: 0.05% full scale Operating Temp: -29 to 85°C (-20 to 185°F)

Compensated Temp: -18 to 72°C (35 to 160°F)

Thermal Effects:

Zero: 0.015% full scale/°F Span: 0.015% full scale/°F

Proof Pressure: 10 psi Burst Pressure: 50 psi Static Pressure: 100 psi Gage Type: Capacitance Supply Current: <5 mA

Calibration Report: NIST cal at 25, 50, 75 and 100% full scale; upscale and downscale provided

Response Time: 250 ms Wetted Parts: Dry, clean, non-corrosive gases only Enclosure: NEMA 4X (IP65)

Dimensions: 137 L x 76 W x 64 mm D

(5.4 x 3 x 2.5")

Pressure Port: 1/4 FNPT **Electrical Connections: Screw** terminal (two ½ FNPT conduit)

Weight: 955 g (2.1 lb)



PX654-100D5V, shown smaller than actual size.

To Order	To Order				
RAN	IGE				
inH ₂ O	Pa	MODEL NO.	COMPATIBLE METERS		
0 to 0.1	0 to 25	PX654-0.1D5V	DP25B-E, DP41-E, DP460-E		
0 to 0.25	0 to 62	PX654-0.25D5V	DP25B-E, DP41-E, DP460-E		
0 to 0.50	0 to 125	PX654-0.5D5V	DP25B-E, DP41-E, DP460-E		
0 to 1	0 to 249	PX654-01D5V	DP25B-E, DP41-E, DP460-E		
0 to 2	0 to 498	PX654-02D5V	DP25B-E, DP41-E, DP460-E		
0 to 3	0 to 748	PX654-03D5V	DP25B-E, DP41-E, DP460-E		
0 to 5	0 to 1.25k	PX654-05D5V	DP25B-E, DP41-E, DP460-E		
0 to 10	0 to 2.49k	PX654-10D5V	DP25B-E, DP41-E, DP460-E		
0 to 25	0 to 6.23k	PX654-25D5V	DP25B-E, DP41-E, DP460-E		
0 to 50	0 to 12.5k	PX654-50D5V	DP25B-E, DP41-E, DP460-E		
0 to 100	0 to 24.9k	PX654-100D5V	DP25B-E, DP41-E, DP460-E		
0 to 200	0 to 49.8k	PX654-200D5V	DP25B-E, DP41-E, DP460-E		
BI-DIRECTION	ONAL RANG	ES			
±0.05	12	PX654-0.05BD5V	DP25B-E, DP41-E, DP460-E		
±0.1	25	PX654-0.1BD5V	DP25B-E, DP41-E, DP460-E		
±0.25	62	PX654-0.25BD5V	DP25B-E, DP41-E, DP460-E		
±0.50	125	PX654-0.5BD5V	DP25B-E, DP41-E, DP460-E		
±1	249	PX654-01BD5V	DP25B-E, DP41-E, DP460-E		
±2.5	623	PX654-2.5BD5V	DP25B-E, DP41-E, DP460-E		
±5	1.25k	PX654-05BD5V	DP25B-E, DP41-E, DP460-E		
±10	2.49k	PX654-10BD5V	DP25B-E, DP41-E, DP460-E		
±25	6.23k	PX654-25BD5V	DP25B-E, DP41-E, DP460-E		
±50	12.5k	PX654-50BD5V	DP25B-E, DP41-E, DP460-E		
±100	24.9k	PX654-100BD5V	DP25B-E, DP41-E, DP460-E		

Comes complete with operator's manual and NIST traceable calibration. * See section D for compatible meters.

Ordering Examples: PX654-01D5V, 0 to 1 inH2O differential pressure range with 1 to 5 Vdc output, $\tilde{0} = 1 \text{ Vdc.}$

PX654-2.5BD5V, ±2.5 psi differential pressure range with 1 to 5 Vdc output, 0 psi = 3 Vdc.

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PRESSURE TRANSDUCER LOW DIFFERENTIAL PRESSURES

PX663 Series 1 to 5 Vdc Output

PX665 Series 4 to 20 mA Output 0-0.1 to 0-50 inH₂0 0-0.25 to 0-125 mbar

PX663/ PX665 Series



- Compact Space-Saving **DIN Rail Mountable** Design
- ✓ Low Differential **Pressure Ranges**
- ✓ On-Board Voltage **Regulation Allows** Use of Low-Cost, Unregulated **Power Supply**
- ✓ Voltage and Current **Output Models**

SPECIFICATIONS

Excitation: 12 to 36 Vdc

Output:

PX663: 1 to 5 Vdc PX665: 4 to 20 mA Accuracy: ±0.5% FS

Non-Linearity: ±0.4% full scale Hysteresis: ±0.02% full scale Non-Repeatability: ±0.05% PX663 Supply Current: <10 mA

Warm-Up Time: 5 sec maximum to meet standard specifications from initial

power-up

Stability: Maximum change (full scale/

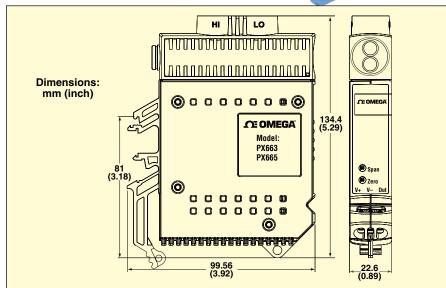
year) ±0.5%

Response Time: 250 ms **Temperature Limits:**

Storage: -40 to 82°C (-40 to 180°F) **Operating:** -28 to 82°C (-20 to 180°F) (10 to 95% RH non-condensing) Compensated: 2 to 57°C (35 to 135°F)

corrected with zero potentiometer

PX663-5BD5V, shown smaller than actual size, includes calibration kit and test jacks, not shown.



Thermal Coefficients:

Zero: ±0.036% full scale/°C (±0.02%

full scale/°F)

Span: ±0.036% full scale/°C (±0.02%

full scale/°F)

EMC: CE compliant to EN61326: 1997 ANNEX A harmonized heavy industrial transmitter specification

Overpressure Limits:

Proof: 15 psid Burst: 25 psi

Maximum Static Pressure: 25 psi **Mounting Position Effect:** 0.5" WC and higher 0.1% FS/g Below 0.5" WC 0.25% FS/g Note: Mounting position effect easily

Span: ±3% full scale Pressure Connections: 1/8 NPT female

Zero and Span Potentiometers

Weight: 127 g (4.5 oz)

Zero: ±5% full scale

Enclosure: Glass-filled polycarbonate

(Front Accessible, Non-Interactive):

(UL94 -V-1) **Pressure Media:**

Clean, dry and non-corrosive gas NOT FOR USE WITH LIQUIDS

Mounting:

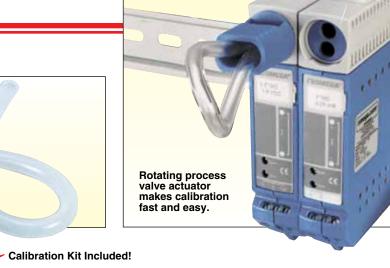
DIN rail types EN50022, 35 and 45

Calibration kit includes actuator tool and tubing, shown larger than actual

size for detail.

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To Order				
	ANGE	1 to 5 Vdc OUTPUT	4 to 20 mA OUTPUT	
inH ₂ O	mbar	MODEL NO.	MODEL NO.	COMPATIBLE METERS*
0 to 0.10	0.25	PX663-0.1D5V	PX665-0.1DI	DP25B-E, DPi8, DP41-E
0 to 0.25	0.62	PX663-0.25D5V	PX665-0.25DI	DP25B-E, DPi8, DP41-E
0 to 0.50	1.25	PX663-0.5D5V	PX665-0.5DI	DP25B-E, DPi8, DP41-E
0 to 0.75	1.87	PX663-0.75D5V	PX665-0.75DI	DP25B-E, DPi8, DP41-E
0 to 1.00	2.50	PX663-1D5V	PX665-1DI	DP25B-E, DPi8, DP41-E
0 to 1.50	3.70	PX663-1.5D5V	PX665-1.5DI	DP25B-E, DPi8, DP41-E
0 to 2.00	5.00	PX663-2D5V	PX665-2DI	DP25B-E, DPi8, DP41-E
0 to 2.50	6.20	PX663-2.5D5V	PX665-2.5DI	DP25B-E, DPi8, DP41-E
0 to 3.00	7.50	PX663-3D5V	PX665-3DI	DP25B-E, DPi8, DP41-E
0 to 5.00	12.50	PX663-5D5V	PX665-5DI	DP25B-E, DPi8, DP41-E
0 to 10.00	24.90	PX663-10D5V	PX665-10DI	DP25B-E, DPi8, DP41-E
0 to 15.00	37.40	PX663-15D5V	PX665-15DI	DP25B-E, DPi8, DP41-E
0 to 20.00	49.80	PX663-20D5V	PX665-20DI	DP25B-E, DPi8, DP41-E
0 to 25.00	62.30	PX663-25D5V	PX665-25DI	DP25B-E, DPi8, DP41-E
0 to 50.00	125.00	PX663-50D5V	PX665-50DI	DP25B-E, DPi8, DP41-E
BI-DIRECTION	ONAL RANGES	· •		
±0.05	±0.12	PX663-0.05BD5V	PX665-0.05BDI	DP25B-E, DPi8, DP41-E
±0.10	±0.25	PX663-0.1BD5V	PX665-0.1BDI	DP25B-E, DPi8, DP41-E
±0.25	±0.62	PX663-0.25BD5V	PX665-0.25BDI	DP25B-E, DPi8, DP41-E
±0.50	±1.25	PX663-0.5BD5V	PX665-0.5BDI	DP25B-E, DPi8, DP41-E
±0.75	±1.87	PX663-0.75BD5V	PX665-0.75BDI	DP25B-E, DPi8, DP41-E
±1.00	±2.50	PX663-1BD5V	PX665-1BDI	DP25B-E, DPi8, DP41-E
±2.00	±5.00	PX663-2BD5V	PX665-2BDI	DP25B-E, DPi8, DP41-E
±2.50	±6.20	PX663-2.5BD5V	PX665-2.5BDI	DP25B-E, DPi8, DP41-E
±3.00	±7.50	PX663-3BD5V	PX665-3BDI	DP25B-E, DPi8, DP41-E
±5.00	±12.50	PX663-5BD5V	PX665-5BDI	DP25B-E, DPi8, DP41-E
±10.00	±24.90	PX663-10BD5V	PX665-10BDI	DP25B-E, DPi8, DP41-E
±25.00	±125.00	PX663-25BD5V	PX665-25BDI	DP25B-E, DPi8, DP41-E

^{*} See omega.com for compatible meters.

Comes complete with operator's manual, calibration kit, and test jacks. Custom configurations available. Please consult Engineering. Ordering Examples: PX663-2.5BD5V, differential pressure range with 4 to 20 mA output, 0 = 12 mA, ± 2.5 inH₂O.

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PX663 Series 1 to 5 Vdc Output PX665 Series 4 to 20 mA Output 0-0.1 to 0-50 inH₂0 0-0.25 to 0-125 mbar











Standard



- ✓ Low Differential **Pressure Ranges**
- On-Board Voltage **Regulation Allows** Use of Low-Cost, Unregulated **Power Supply**
- ✓ Voltage and Current **Output Models**

SPECIFICATIONS

Excitation: 12 to 36 Vdc

Output: PX663: 1 to 5 Vdc

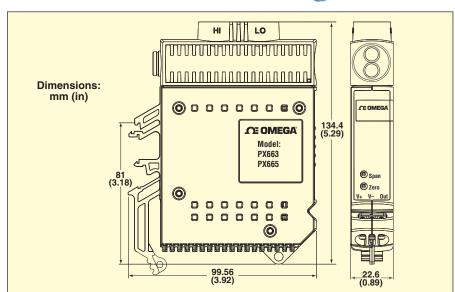
PX665: 4 to 20 mA Accuracy: ±0.5% FS Non-Linearity: ±0.4% FS **Hysteresis:** ±0.02% FS Non-Repeatability: ±0.05%

PX663 Supply Current: <10 mA Warm-Up Time: 5 sec max to meet standard specifications from initial power-up

Stability: Max change (FS/year) ±0.5%

Response Time: 250 ms Temperature Limits:

Storage: -40 to 82°C (-40 to 180°F) Operating: -28 to 82°C (-20 to 180°F) (10 to 95% RH non-condensing) Compensated: 2 to 57°C (35 to 135°F) PX663-5BD5V, \$665, shown smaller than actual size, includes calibration kit and test jacks, not shown.



Thermal Coefficients:

Zero: ±0.036% FS/°C (±0.02% FS/°F) **Span:** ±0.036% FS/°C (±0.02% FS/°F)

EMC: CE compliant to EN61326: 1997 ANNEX A harmonized heavy industrial transmitter specification

Overpressure Limits:

Proof: 15 psid Burst: 25 psi

Max Static Pressure: 25 psi **Mounting Position Effect:** 0.5" WC and higher 0.1% FS/g Below 0.5" WC 0.25% FS/g Note: Mounting position effect easily corrected with zero potentiometer

Zero and Span Potentiometers (Front Accessible, Non-Interactive):

Zero: ±5% FS Span: ±3% FS

Pressure Connections: 1/8 NPT female

Weight: 127 g (4.5 oz)

Enclosure: Glass-filled polycarbonate

(UL94 -V-1)

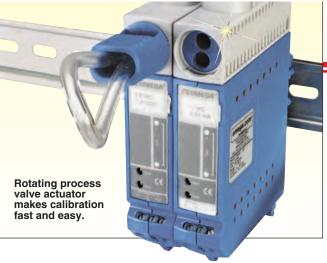
Pressure Media: Clean, dry and non-corrosive gas NOT FOR USE WITH LIQUIDS

Mounting:

DIN rail types EN50022, 35 and 45

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MOST POPULAR MODELS HIGHLIGHTED!

					SI FUFUL	An Muulla iiiaiiliaiii Lu
To Order	(Specify M	odel Number)				
	ANGE	1 to 5 Vdc OU	TPUT	4 to 20 mA OU	TPUT	
inH ₂ O	mbar	MODEL NO.	PRICE	MODEL NO.	PRICE	COMPATIBLE METERS*
0 to 0.10	0.25	PX663-0.1D5V	\$780	PX665-0.1DI	\$765	DP25B-E, DPi8, DP41-E
0 to 0.25	0.62	PX663-0.25D5V	735	PX665-0.25DI	720	DP25B-E, DPi8, DP41-E
0 to 0.50	1.25	PX663-0.5D5V	700	PX665-0.5DI	685	DP25B-E, DPi8, DP41-E
0 to 0.75	1.87	PX663-0.75D5V	665	PX665-0.75DI	650	DP25B-E, DPi8, DP41-E
0 to 1.00	2.50	PX663-1D5V	665	PX665-1DI	650	DP25B-E, DPi8, DP41-E
0 to 1.50	3.70	PX663-1.5D5V	665	PX665-1.5DI	650	DP25B-E, DPi8, DP41-E
0 to 2.00	5.00	PX663-2D5V	665	PX665-2DI	650	DP25B-E, DPi8, DP41-E
0 to 2.50	6.20	PX663-2.5D5V	665	PX665-2.5DI	650	DP25B-E, DPi8, DP41-E
0 to 3.00	7.50	PX663-3D5V	665	PX665-3DI	650	DP25B-E, DPi8, DP41-E
0 to 5.00	12.50	PX663-5D5V	665	PX665-5DI	650	DP25B-E, DPi8, DP41-E
0 to 10.00	24.90	PX663-10D5V	665	PX665-10DI	650	DP25B-E, DPi8, DP41-E
0 to 15.00	37.40	PX663-15D5V	665	PX665-15DI	650	DP25B-E, DPi8, DP41-E
0 to 20.00	49.80	PX663-20D5V	665	PX665-20DI	650	DP25B-E, DPi8, DP41-E
0 to 25.00	62.30	PX663-25D5V	665	PX665-25DI	650	DP25B-E, DPi8, DP41-E
0 to 50.00	125.00	PX663-50D5V	665	PX665-50DI	650	DP25B-E, DPi8, DP41-E
BI-DIRECTI	ONAL RANGES					
±0.05	±0.12	PX663-0.05BD5V	\$780	PX665-0.05BDI	\$765	DP25B-E, DPi8, DP41-E
±0.10	±0.25	PX663-0.1BD5V	735	PX665-0.1BDI	720	DP25B-E, DPi8, DP41-E
±0.25	±0.62	PX663-0.25BD5V	700	PX665-0.25BDI	685	DP25B-E, DPi8, DP41-E
±0.50	±1.25	PX663-0.5BD5V	665	PX665-0.5BDI	650	DP25B-E, DPi8, DP41-E
±0.75	±1.87	PX663-0.75BD5V	665	PX665-0.75BDI	650	DP25B-E, DPi8, DP41-E
±1.00	±2.50	PX663-1BD5V	665	PX665-1BDI	650	DP25B-E, DPi8, DP41-E
±2.00	±5.00	PX663-2BD5V	665	PX665-2BDI	650	DP25B-E, DPi8, DP41-E
±2.50	±6.20	PX663-2.5BD5V	665	PX665-2.5BDI	650	DP25B-E, DPi8, DP41-E
±3.00	±7.50	PX663-3BD5V	665	PX665-3BDI	650	DP25B-E, DPi8, DP41-E
±5.00	±12.50	PX663-5BD5V	665	PX665-5BDI	650	DP25B-E, DPi8, DP41-E
±10.00	±24.90	PX663-10BD5V	665	PX665-10BDI	650	DP25B-E, DPi8, DP41-E
±25.00	±125.00	PX663-25BD5V	665	PX665-25BDI	650	DP25B-E, DPi8, DP41-E

^{*} See section D for compatible meters.

Comes complete with operator's manual, calibration kit, and test jacks. Custom configurations available. Please consult Engineering. Ordering Examples: PX663-2.5BD5V, differential pressure range with 4 to 20 mA output, 0 = 12 mA, ± 2.5 inH₂O, \$650. PX665-2.5DI, 0 to 2.5 psi, differential pressure, 4 to 20 mA output with 4 mA 0 = psid, \$650.

Recommended Reference Book: Fundamentals of Temperature, Pressure, and Air Flow Measurement OP-6, \$265. Visit omega.com/bobi for Additional Books



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Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters

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TRANSDUCERS

FOR LEVEL, DEPTH OR GROUND WATER MEASUREMENTS

Gage, Sealed Gage or Absolute Pressure mV/V, 0 to 5 Vdc, 0 to 10 Vdc, or 4 to 20 mA Outputs 0-10 inH₂0 to 0-1000 psi

PX709GW Series Level/Submersible



- Precision Micromachined Silicon Sensor
- ✓ 5-Point NIST Traceable Calibration
- ✓ Lightning/Surge **Protection Available on Amplified Models**
- ✓ 316L SS Case and Diaphragm
- ✓ Fused Polyurethane Cable
- ✓ Premium Temperature **Performance**
- Broad Compensated **Temperature Range**
- ✓ 0.20% Standard Accuracy or Optional 0.08% High **Accuracy Models for** Precise Depth Measurement
- Available in Gage **Pressure: Vented to** Atmosphere Through the Cable; Sealed Gage: Not **Vented to Atmosphere**; or Absolute Pressure: Vacuum Reference
- **✓** Reverse Polarity Protected
- ✓ Protective Nose Cone and **Desiccant Available**
- Standard or Custom **Cable Lengths**

The PX709GW Series submersible depth transducers are designed to make precision level or depth measurements in fresh water or liquids compatible with 316 SS reliably for years in harsh industrial environments. The PX709GW



series has the proven Omega micromachined silicon technology as its core sensor. The Piezoresistive technology uses precision solid state strain gages molecularly embedded into a highly stable silicon wafer. The silicon is mounted in a sealed chamber and protected from the environmental fluids by a pressure sensitive stainless steel diaphragm. A very small volume of silicone oil transfers the pressure from the diaphragm to the silicon sensor. The cable is molded onto the case using a unique high pressure, high temperature system to assure the best possible quality seal for long life and durability. This technology produces a very rugged, high stability sensor with exceptional accuracy, minimal thermal effects

Nose cone included.

Applications

- Level Monitoring and Control
- Depth Measurement
- Surface Water Monitoring
- Tank Level
- Well Water Depth
- Waste Water Applications
- Dewatering Installations
- Construction Bypass

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and long term reliability.

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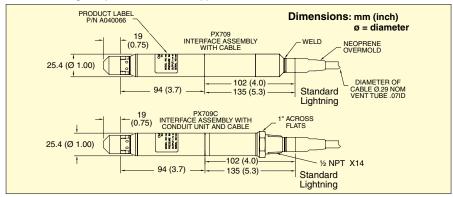
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FOR LEVEL, DEPTH OR GROUND MEASUREMENTS

PX709GW Connections

	mV/V	VOLTAGE	CURRENT
Red	(+) V in	(+) V in	(+) Supply
Black	(-) V in	(-) Common	(-) Supply
Green	(-) Signal	no connection or Common*	Shunt (option)
White	(+) Signal	(+) Signal	Shunt (option)
		, , , , ,	







Approvals: RoHS compliant

Accuracy (Combined Linearity, Hysteresis and Repeatability): Standard ±0.20% BSL or high accuracy,

option "HH", ±0.08% BSL

Setting Accuracy Zero: ± 0.5% full scale typical, ± 1.0% full scale maximum (± 1.0% full scale typical, ± 2.0% full scale maximum for ranges ≤ 2.5 psi)

Setting Accuracy Span: $\pm 0.5\%$ full scale typical, $\pm 1.0\%$ FS maximum ($\pm 1.0\%$ full scale typical, $\pm 2.0\%$ full scale maximum for ranges ≤ 2.5 psi) calibrated in vertical direction with fitting down

Minimum Resistance Between Transducer Body and Any Wire: $100M \Omega @ 50 \text{ Vdc}$ (before surge protection)

Pressure Cycles: 1 million minimum Long Term Stability (1 year.): ±0.1% full scale typical

Operating Temperature: -18 to 79°C (0 to 175°F) with no solid freeze

Compensated Temperature: -1 to 88°C (30 to 190°F)

Thermal Effects (Over Compensated Range):

Zero Balance:

Ranges >5 psi: ±0.3% span Ranges ≤5 psi: ±0.5% span

Span Setting:

Ranges >5 psi: ±0.3% span Ranges ≤5 psi: ±0.5% span Bandwidth: DC to 1 kHz typical Response Time: 500 usec, 0 to 90%

step change

CE Compliant: Meets EN 61326-1: 2006 for industrial locations (certified with 91 m (300'))

Lightning Protection Option (if included): Integral lightning surge protection to IEC-61000-4-5 (Level 4)

Shock: 50 g, 11 ms, half-sine horizontal

and vertical axis
Vibration: ± 20 g
Overpressure

Gage and Sealed Gage:

10 inH₂O: 10 times span 1 psi: 6 times span 2.5 to 1000 psi: 4 times span

Absolute:

5 psia: 6 times span; ranges >**5 psia:** 4 times span

Containment Pressure Gage Pressure

10 inH₂O to 5 psi: to 1000 psi **15 to 1000 psi:** to 3000 psi

Absolute Pressure:

5 to 1000 psi: to 6000 psia Wetted Parts: 316L stainless steel Body Material: 316L stainless steel Pressure Connection: 9/16-18 UNF female

Transducer Weight: 285 g (10 oz) typical depending upon configuration Cable Construction: Polyurethane jacket with double Kevlar® reinforcing stringers, fused to case, with large vent tube

Cable Pull Strength: 109 kg (240 lb) Cable Conductors: Four 24 AWG (19/36 stranded tinned copper) with ETFE insulation. Meets

MIL-W-22759/16 & SAE AS22759/16

Cable Sealing: Fused to case via

Cable Sealing: Fused to case via molded Neoprene boot rated to 610 m (2000') depth

Standard Cable Lengths (ft): 10, 15, 20, 25, 30, 40, 50, 60, 65, 74, 100, 150, 200, 300, for other lengths contact factory for lead times (see page 6)





Shown monitoring river level for flood warning.

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PX709GW SERIES WITH 100 mV OUTPUT

Submersible Level Transducer

To Order

10 mV/V OUTPUT, 0.2% ACCURACY¹ WITH 3 m (10¹) CABLE [Maximum recommended cable length** on mV models 7.8 m (25¹)] GAGE PRESSURE RANGES (INTERMEDIATE RANGES AVAILABLE, CONSULT PRESSURE ENGINEERING)

RANGE PSIG	EQUIVALENT DEPTH ftH ₂ O	EQUIVALENT DEPTH mH ₂ O	STD CABLE LENGTH	STANDARD PART NUMBER ² STANDARD 0.20% ACCURACY	HIGH ACCURACY MODELS 0.08% ACCURACY
0 to 0.36	10.00 inH ₂ O	250 mmH ₂ O	3 m (10')	PX709GW-10WGV-[**]	PX709GW-10WGV-HH-[**]
0 to 1	27.68 inH ₂ O	670 mmH ₂ O	3 m (10')	PX709GW-001GV-[**]	PX709GW-001GV-HH-[**]
0 to 2.5	69.24 inH ₂ O	1757 mmH ₂ O	3 m (10')	PX709GW-2.5GV-[**]	PX709GW-2.5GV-HH-[**]
0 to 5	11.5	3.51	3 m (10')	PX709GW-005GV-[**]	PX709GW-005GV-HH-[**]
0 to 10	23.1	7.04	3 m (10')	PX709GW-010GV-[**]	PX709GW-010GV-HH-[**]
0 to 15	34.6	10.5	3 m (10')	PX709GW-015GV-[**]	PX709GW-015GV-HH-[**]
0 to 30	69.2	21.1	3 m (10')	PX709GW-030GV-[**]	PX709GW-030GV-HH-[**]
0 to 50	115	35.1	3 m (10')	PX709GW-050GV-[**]	PX709GW-050GV-HH-[**]
0 to 100	231	70.4	3 m (10')	PX709GW-100GV-[**]	PX709GW-100GV-HH-[**]
0 to 150	346	105	3 m (10')	PX709GW-150GV-[**]	PX709GW-150GV-HH-[**]
0 to 250	577	176	3 m (10')	PX709GW-250GV-[**]	PX709GW-250GV-HH-[**]
0 to 500	1153	351	3 m (10')	PX709GW-500GV-[**]	PX709GW-500GV-HH-[**]
0 to 750	1730	527	3 m (10')	PX709GW-750GV-[**]	PX709GW-750GV-HH-[**]
0 to 1000	2307	703	3 m (10')	PX709GW-1.0KGV-[**]	PX709GW-1.0KGV-HH-[**]
SEALED GAG	E PRESSURE RA	NGES (PSISG)			
0 to 100	231	70.4	3 m (10')	PX709GW-100SGV-[**]	PX709GW-100SGV-HH-[**]
0 to 150	346	105	3 m (10')	PX709GW-150SGV-[**]	PX709GW-150SGV-HH-[**]
0 to 250	577	176	3 m (10')	PX709GW-250SGV-[**]	PX709GW-250SGV-HH-[**]
0 to 500	1153	351	3 m (10')	PX709GW-500SGV-[**]	PX709GW-500SGV-HH-[**]
0 to 750	1730	527	3 m (10')	PX709GW-750SGV-[**]	PX709GW-750SGV-HH-[**]
0 to 1000	2307	703	3 m (10')	PX709GW-1.0KSGV-[**]	PX709GW-1.0KSGV-HH-[**]
ABSOLUTE P	RESSURE RANG	ES (PSIA)			
0 to 5	11.5	3.51	3 m (10')	PX709GW-005AV-[**]	PX709GW-005AV-HH-[**]
0 to 10	23.1	7.04	3 m (10')	PX709GW-010AV-[**]	PX709GW-010AV-HH-[**]
0 to 15	34.6	10.5	3 m (10')	PX709GW-015AV-[**]	PX709GW-015AV-HH-[**]
0 to 30	69.2	21.1	3 m (10')	PX709GW-030AV-[**]	PX709GW-030AV-HH-[**]
0 to 50	115	35.1	3 m (10')	PX709GW-050AV-[**]	PX709GW-050AV-HH-[**]
0 to 100	231	70.4	3 m (10')	PX709GW-100AV-[**]	PX709GW-100AV-HH-[**]
0 to 150	346	105	3 m (10')	PX709GW-150AV-[**]	PX709GW-150AV-HH-[**]
0 to 250	577	176	3 m (10')	PX709GW-250AV-[**]	PX709GW-250AV-HH-[**]
0 to 500	1153	351	3 m (10')	PX709GW-500AV-[**]	PX709GW-500AV-HH-[**]
0 to 750	1730	527	3 m (10')	PX709GW-750AV-[**]	PX709GW-750AV-HH-[**]
0 to 1000	2307	703	3 m (10')	PX709GW-1.0KAV-[**]	PX709GW-1.0KAV-HH-[**]

mV/V OUTPUT SPECIFICATIONS

Output: 100 mV @ 10 Vdc (Ratiometric 5 to 10 Vdc) **Cable Length: For lengths over 7.6 (25') output signal is

attenuated 1/2% per 30.5 m (100') nominal Supply Voltage: 5 to 10 Vdc (ratiometric) Current Draw: 5 mA @ 10 Vdc Input Impedance: 1000 to 5000 Ω Output Impedance: 5000 $\Omega \pm 10\%$ Typical See Common Specifications for other parameters

Comes complete with 5-point NIST traceable calibration certificate.

OF HONS FOR SUBMENSIBLE TRANSDUCERS				
PX709-BOX1	Terminal enclosure without surge protection - for use with all models			
PX709-BOX2	Terminal enclosure with surge protection - for use with 4 to 20 mA without Shunt Cal (one surge protection module)			
PX709-BOX3	Terminal enclosure with surge protection - for use with voltage output sensors and 4 to 20 mA with Shunt Cal option (two surge protection modules)			
A019385	Replacement desiccant to keep moisture out of yent tube			

[**] To order with additional cable length, specify total length in feet, PX709GW-001GV-25FT, additional cost for length over 10 feet. Consult sales for stock cable length to assure fast delivery.

- 1.) To order with optional high accuracy for extra cost, insert code "-HH" for 0.08% accuracy after the V, PX709GW-100GV-HH-[**].
- 2.) To order with ½ NPT conduit fitting specify Model PX709C for additional cost, PX709CGW-010GV.
- 3.) Lightning protection is available on amplified voltage and mA output models for additional costs.

Ordering Examples: PX709GW-001GV, 1 psi gage submersible transducer with 10 mV/V output, 3 m (10') of cable and standard 0.2% accuracy. PX709GW-005AV-HH-25FT, 5 psi absolute pressure submersible transducer with 10 mV/V output, 7.6 m (25') of cable and high 0.08% accuracy. PX709CGW-2 5GV-20FT 2.5 nsi gage submersible transducer with 10 mV/V output, a ½ NPT conduit fitting, 6.1 m (201)of cable

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PX709GW SERIES WITH 0 TO 5 Vdc OR 0 TO 10 Vdc OUTPUT

Submersible Level Transducer

To Order

5 Vdc OUTPUT, 0.2% ACCURACY¹ WITH 3 m (10¹) CABLE [Maximum cable length 91 m (300¹)] GAGE PRESSURE RANGES (INTERMEDIATE RANGES AVAILABLE, CONSULT PRESSURE ENGINEERING)

RANGE PSIG	EQUIVALENT DEPTH ftH ₂ O	EQUIVALENT DEPTH mH ₂ O	STD CABLE LENGTH	STANDARD PART NUMBER ² STANDARD 0.20% ACCURACY	LIGHTNING ³ PROTECTED MODELS STANDARD 0.20% ACCURACY
0 to 0.36	10.00 inH ₂ O	250 mmH ₂ O	3 m (10')	PX709GW-10WG5V-[**]	PX709LGW-10WG5V-[**]
0 to 1	27.68 inH ₂ O	670 mmH ₂ O	3 m (10')	PX709GW-001G5V-[**]	PX709LGW-001G5V-[**]
0 to 2.5	69.24 inH ₂ O	1757 mmH ₂ O	3 m (10')	PX709GW-2.5G5V-[**]	PX709LGW-2.5G5V-[**]
0 to 5	11.5	3.51	3 m (10')	PX709GW-005G5V-[**]	PX709LGW-005G5V-[**]
0 to 10	23.1	7.04	3 m (10')	PX709GW-010G5V-[**]	PX709LGW-010G5V-[**]
0 to 15	34.6	10.5	3 m (10')	PX709GW-015G5V-[**]	PX709LGW-015G5V-[**]
0 to 30	69.2	21.1	3 m (10')	PX709GW-030G5V-[**]	PX709LGW-030G5V-[**]
0 to 50	115	35.1	3 m (10')	PX709GW-050G5V-[**]	PX709LGW-050G5V-[**]
0 to 100	231	70.4	3 m (10')	PX709GW-100G5V-[**]	PX709LGW-100G5V-[**]
0 to 150	346	105	3 m (10')	PX709GW-150G5V-[**]	PX709LGW-150G5V-[**]
0 to 250	577	176	3 m (10')	PX709GW-250G5V-[**]	PX709LGW-250G5V-[**]
0 to 500	1153	351	3 m (10')	PX709GW-500G5V-[**]	PX709LGW-500G5V-[**]
0 to 750	1730	527	3 m (10')	PX709GW-750G5V-[**]	PX709LGW-750G5V-[**]
0 to 1000	2307	703	3 m (10')	PX709GW-1.0KG5V-[**]	PX709LGW-1.0KG5V-[**]
SEALED GAGE	PRESSURE (PS	ISG)			
0 to 100	231	70.4	3 m (10')	PX709GW-100SG5V-[**]	PX709LGW-100SG5V-[**]
0 to 150	346	105	3 m (10')	PX709GW-150SG5V-[**]	PX709LGW-150SG5V-[**]
0 to 250	577	176	3 m (10')	PX709GW-250SG5V-[**]	PX709LGW-250SG5V-[**]
0 to 500	1153	351	3 m (10')	PX709GW-500SG5V-[**]	PX709LGW-500SG5V-[**]
0 to 750	1730	527	3 m (10')	PX709GW-750SG5V-[**]	PX709LGW-750SG5V-[**]
0 to 1000	2307	703	3 m (10')	PX709GW-1.0KSG5V-[**]	PX709LGW-1.0KSG5V-[**]
ABSOLUTE PR	ESSURE (PSIA)				
0 to 5	11.5	3.51	3 m (10')	PX709GW-005A5V-[**]	PX709LGW-005A5V-[**]
0 to 10	23.1	7.04	3 m (10')	PX709GW-010A5V-[**]	PX709LGW-010A5V-[**]
0 to 15	34.6	10.5	3 m (10')	PX709GW-015A5V-[**]	PX709LGW-015A5V-[**]
0 to 30	69.2	21.1	3 m (10')	PX709GW-030A5V-[**]	PX709LGW-030A5V-[**]
0 to 50	115	35.1	3 m (10')	PX709GW-050A5V-[**]	PX709LGW-050A5V-[**]
0 to 100	231	70.4	3 m (10')	PX709GW-100A5V-[**]	PX709LGW-100A5V-[**]
0 to 150	346	105	3 m (10')	PX709GW-150A5V-[**]	PX709LGW-150A5V-[**]
0 to 250	577	176	3 m (10')	PX709GW-250A5V-[**]	PX709LGW-250A5V-[**]
0 to 500	1153	351	3 m (10')	PX709GW-500A5V-[**]	PX709LGW-500A5V-[**]
0 to 750	1730	527	3 m (10')	PX709GW-750A5V-[**]	PX709LGW-750A5V-[**]
0 to 1000	2307	703	3 m (10')	PX709GW-1.0KA5V-[**]	PX709LGW-1.0KA5V-[**]

5V and 10V OUTPUT SPECIFICATIONS

Output: 0 to 5 Vdc or 0 to 10 Vdc (3 or 4 wire user

selectable) see application note/manual

Supply Voltage: 5V output: 10 to 30 Vdc @ 10 mA, 10V

output: 15 to 30 Vdc @ 10 mA

Lightning Protection: See application note/manual

See Common Specifications for other parameters

OPTIONS FOR	OPTIONS FOR SUBMERSIBLE TRANSDUCERS		
PX709-BOX1	Terminal enclosure without surge protection - for use with all models		
PX709-BOX2	Terminal enclosure with surge protection - for use with 4 to 20 mA without Shunt Cal (one surge protection module)		
PX709-BOX3	Terminal enclosure with surge protection - for use with voltage output sensors and 4 to 20 mA with Shunt Cal option (two surge protection modules)		
A019385	Replacement desiccant to keep moisture out of vent tube		

Comes complete with 5-point NIST traceable calibration certificate.

[**] To order with additional cable length, specify total length in feet, PX709GW-001G5V-25FT, additional cost for length over 10 feet. Consult sales for stock cable length to assure fast delivery.

- 1.) To order with optional high accuracy for extra cost, insert code "-HH" after 5V for 0.08% accuracy, PX709-150G5V-HH-[**].
- 2.) To order with ½ NPT conduit fitting for extra cost, specify Model PX709C, for additional cost PX709CGW-010G5V.
- 3.) To order with optional Lightning/Surge protection for extra cost, specify model PX709LGW, PX709LGW-001G5V.
- 4.) To order with optional Lightning/Surge protection and conduit fitting for extra cost, specify model PX709CLGW, PX709CLGW-001G5V. Ordering Examples: PX709GW-001G5V, 1 psi gage submersible transducer with 0 to 5 Vdc output, 3 m (10') of cable and standard 0.2% accuracy. PX709LGW-005A5V-HH-25FT, 5 psi absolute pressure, lightning protected submersible transducer with 0 to 5 Vdc output, 7.6 m (25') of cable and high 0.08% accuracy.

 Procedure and high 0.08% accuracy.

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PX709GW SERIES WITH 4 TO 20 mA OUTPUT

Submersible Level Transducer

To Order

4 to 20 OUTPUT, 0.2% ACCURACY¹ WITH 3 m (10¹) CABLE [Maximum cable length 91 m (300¹)] GAGE PRESSURE RANGES (INTERMEDIATE RANGES AVAILABLE, CONSULT PRESSURE ENGINEERING)

RANGE PSIG	EQUIVALENT DEPTH ftH ₂ O	EQUIVALENT DEPTH mH ₂ O	STD CABLE LENGTH	STANDARD PART NUMBER ² STANDARD 0.20% ACCURACY	LIGHTNING ³ PROTECTED MODELS STANDARD 0.20% ACCURACY
0 to 0.36	10.00 inH ₂ O	250 mmH ₂ O	3 m (10')	PX709GW-10WGI-[**]	PX709LGW-10WGI-[**]
0 to 1	27.68 inH ₂ O	670 mmH ₂ O	3 m (10')	PX709GW-001GI-[**]	PX709LGW-001GI-[**]
0 to 2.5	69.24 inH ₂ O	1757 mmH ₂ O	3 m (10')	PX709GW-2.5GI-[**]	PX709LGW-2.5GI-[**]
0 to 5	11.5	3.51	3 m (10')	PX709GW-005GI-[**]	PX709LGW-005GI-[**]
0 to 10	23.1	7.04	3 m (10')	PX709GW-010GI-[**]	PX709LGW-010GI-[**]
0 to 15	34.6	10.5	3 m (10')	PX709GW-015GI-[**]	PX709LGW-015GI-[**]
0 to 30	69.2	21.1	3 m (10')	PX709GW-030GI-[**]	PX709LGW-030GI-[**]
0 to 50	115	35.1	3 m (10')	PX709GW-050GI-[**]	PX709LGW-050GI-[**]
0 to 100	231	70.4	3 m (10')	PX709GW-100GI-[**]	PX709LGW-100GI-[**]
0 to 150	346	105	3 m (10')	PX709GW-150GI-[**]	PX709LGW-150GI-[**]
0 to 250	577	176	3 m (10')	PX709GW-250GI-[**]	PX709LGW-250GI-[**]
0 to 500	1153	351	3 m (10')	PX709GW-500GI-[**]	PX709LGW-500GI-[**]
0 to 750	1730	527	3 m (10')	PX709GW-750GI-[**]	PX709LGW-750GI-[**]
0 to 1000	2307	703	3 m (10')	PX709GW-1.0KGI-[**]	PX709LGW-1.0KGI-[**]
SEALED GAGE	PRESSURE (PSI	SG)			
0 to 100	231	70.4	3 m (10')	PX709GW-100SGI-[**]	PX709LGW-100SGI-[**]
0 to 150	346	105	3 m (10')	PX709GW-150SGI-[**]	PX709LGW-150SGI-[**]
0 to 250	577	176	3 m (10')	PX709GW-250SGI-[**]	PX709LGW-250SGI-[**]
0 to 500	1153	351	3 m (10')	PX709GW-500SGI-[**]	PX709LGW-500SGI-[**]
0 to 750	1730	527	3 m (10')	PX709GW-750SGI-[**]	PX709LGW-750SGI-[**]
0 to 1000	2307	703	3 m (10')	PX709GW-1.0KSGI-[**]	PX709LGW-1.0KSGI-[**]
ABSOLUTE PRI	ESSURE (PSIA)				
0 to 5	11.5	3.51	3 m (10')	PX709GW-005AI-[**]	PX709LGW-005AI-[**]
0 to 10	23.1	7.04	3 m (10')	PX709GW-010AI-[**]	PX709LGW-010AI-[**]
0 to 15	34.6	10.5	3 m (10')	PX709GW-015AI-[**]	PX709LGW-015AI-[**]
0 to 30	69.2	21.1	3 m (10')	PX709GW-030AI-[**]	PX709LGW-030AI-[**]
0 to 50	115	35.1	3 m (10')	PX709GW-050AI-[**]	PX709LGW-050AI-[**]
0 to 100	231	70.4	3 m (10')	PX709GW-100AI-[**]	PX709LGW-100AI-[**]
0 to 150	346	105	3 m (10')	PX709GW-150AI-[**]	PX709LGW-150AI-[**]
0 to 250	577	176	3 m (10')	PX709GW-250AI-[**]	PX709LGW-250AI-[**]
0 to 500	1153	351	3 m (10')	PX709GW-500AI-[**]	PX709LGW-500AI-[**]
0 to 750	1730	527	3 m (10')	PX709GW-750AI-[**]	PX709LGW-750AI-[**]
0 to 1000	2307	703	3 m (10')	PX709GW-1.0KAI-[**]	PX709LGW-1.0KAI-[**]

4 to 20 mA SPECIFICATIONS

Output: 4 to 20 mA

Supply Voltage: 10 to 30 Vdc [(10 to 20 Vdc above 105°C (229°F)] maximum loop res Ω = (Vs-10) x 50

Lightning Protection: See application note/manual

See Common Specifications for other parameters

OPTIONS FOR	OPTIONS FOR SUBMERSIBLE TRANSDUCERS		
PX709-BOX1	Terminal enclosure without surge protection - for use with all models		
PX709-BOX2	Terminal enclosure with surge protection - for use with 4 to 20 mA without Shunt Cal (one surge protection module)		
PX709-BOX3	Terminal enclosure with surge protection - for use with voltage output sensors and 4 to 20 mA with Shunt Cal option (two surge protection modules)		
A019385	Replacement desiccant to keep moisture out of vent tube		

Comes complete with 5-point NIST traceable calibration certificate.

[**] To order with additional cable length, specify total length in feet, PX709GW-001GI-25, additional cost for length over 10 feet. Consult sales for stock cable length to assure fast delivery.

- 1.) To order with optional high accuracy for extra cost, insert code "-HH" after "I" for 0.08% accuracy, PX709-150GI-HH-[**]
- 2.) To order with ½ NPT Conduit fitting for extra cost, specify Model PX709C, for additional cost PX709CGW-010GI
- 3.) To order with optional Lightning/Surge protection for extra cost, specify model PX709LGW, PX709LGW-001GI

4.) To order with optional Lightning/Surge protection and conduit fitting for extra cost, specify model PX709CLGW, PX709CLGW-001GI

Ordering Examples: PX709GW-001GI, 1 psi gage submersible transducer with 4 to 20 mA output, 3 m (10') of cable and standard 0.2% accuracy PX709LGW-005AI-HH-25FT, 5 psi absolute pressure, lightning protected submersible transducer with 4 to 20 mA output, 7.6 m (25') of cable and high 0.08% accuracy

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BUILD A TRANSDUCER TO YOUR SPECIFICATIONS

Build a Transducer to your Specifications

1	2	3	4	5	6		7
SERIES	TYPE	RANGE CODE	PRESSURE TYPE	ОИТРИТ	ACCURACY	,	TOTAL CABLE LENGTH (FT)
PX709	GW -	015	G	I	– нн	ŀ	50 FT
						<u> </u>	
PX709 = Cable PX709C = Conduit	GW = Stainless Steel Wetted Parts LGW = Lightning Protected (amplified models only)	Range (psi) xxx	G = Gage A = Absolute SG = Sealed gage	V = mV/V 5V = 5 Vdc 10V = 10 Vdc I = 4 to 20 mA	Blank = Std. 0.2% Accuracy HH = High 0.08% Accuracy		Total Length in Feet if not 10' Extra cost for additional length over 10'

Optional Higher Accuracy: Add suffix "-HH" after the "V" or "I" in the model number

Optional Conduit Fitting Cable Exit: Specify model PX709CGW

Optional Lightning Protection: Specify model PX709LGW Optional Lightning Protection and Conduit fitting: Specify model **PX709CLGW**

To select your submersible transducer all you have to do is

SELECT:

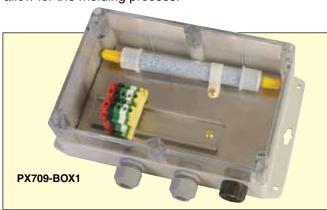
Range Pressure Type Accuracy

Total Cable Length (see table of stocked lengths)

Output

STANDARD CABLE LENGTHS FOR FAST DELIVERY OMEGA® has designed the PX709 Series to be highly

modular so we can configure and ship most models in 1 week. We stock the modules and can quickly assemble and do precision calibrations for any of our several thousand possible combinations. The cable molded onto the transducer using a high pressure, temperature molding process to assure complete sealing. We stock a series of molded cable assemblies in standard lengths to suit most common applications which we can build onto your transducer and deliver in 1 week (see the list below). We also can provide custom lengths with slightly longer lead times to allow for the molding process.



PX709-BOX1 Waterproof terminal box for PX709 provides a waterproof environment for electrical terminations and housing the desiccant. Also available with optional lightning protection

PX709C with 1/2 NPT conduit fitting.

PX709 with standard cable fitting.

STANDARD LENGTHS 3 m (10') 4.6 m (15') 6.1 m (20') 7.6 m (25') 9.1 m (30') 12.2 m (40') 15.2 m (50') 18.3 m (60') 19.8 m (65') 22.5 m (74') 30.5 m (100') 45.7 m (150') 91.4 m (300')

Fast Delivery -

Highlighted Typically

Stock to 2 Weeks!

PRESSURE

PX831 Series



- ✓ 0.3% Full Scale Accuracy
- Compact Size
- ✓ ½ NPT Process Connection
- ¾ NPT Conduit Connection with 0.6 m (24") Cable
- All Welded 316 Stainless Steel Construction
- ✓ FM Approved

The PX831 is a durable, accurate, fixed-range transmitter designed to give years of stable performance in even the toughest environmental and media conditions. Its small size and light weight eliminate the need for complicated mounting hardware and mechanical supports, thereby reducing installation time substantially. The in-line connection permits simple field wiring without additional hardware, contributing to the speed and ease of installation.

SPECIFICATIONS

Excitation: 12 to 30 Vdc Output: 4 to 20 mA (2 wire)

Max Loop Resistance: 900Ω @ 30 VdcAccuracy: ±0.3% of span @ 25°C

(includes linearity, hysteresis and

repeatability)

Zero Offset: 4 mA ±2% of span Span: 16 mA ±1% of span Storage/Process Temperatures: -40 to 100°C (-40 to 212°F)

Ambient Temperature: -40 to 60°C

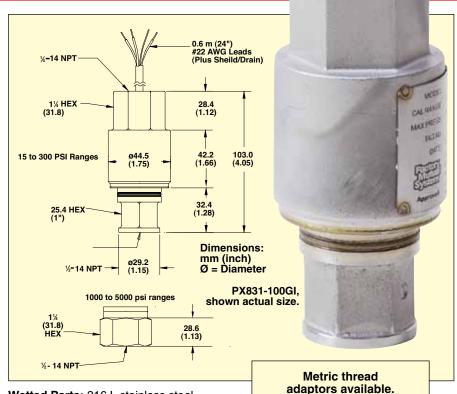
(-40 to 140°F)

Thermal Effects (Zero and Span **Combined):** ±2% per 28°C (50°F) from -40 to 60°C (-40 to 140°F)

Proof Pressure: 300% of rated pressure Humidity Limits: 0 to 100% RH Vibration Effect: ± 0.1% FS for

3 g to 200 Hz

Housing: 316 stainless steel,



Wetted Parts: 316 L stainless steel

Fill Fluid: DC 200 silicone Weight: 374 g (0.87 lb)

Factory Mutual: Explosion-proof for Class I, Division I, Groups B, C and D; Class II Groups E, F and G; and Class III Hazardous Locations and Indoor and Outdoor NEMA 4 (IP65) Enclosure

Canadian Standards Association: Explosion-proof for Class I, Division I, Groups B, C and D; Class II Groups E, F and G; and Class III Hazardous Locations and meets CSA requirements

for Enclosure 4

To Order					
RANGE	MODEL NO.	COMPATIBLE METERS*			
0 to 15 psig	PX831-015GI	iSeries, DP41-E, DP25B-E, DP24-E			
0 to 30 psig	PX831-030GI	iSeries, DP41-E, DP25B-E, DP24-E			
0 to 100 psig	PX831-100GI	iSeries, DP41-E, DP25B-E, DP24-E			
0 to 300 psig	PX831-300GI	iSeries, DP41-E, DP25B-E, DP24-E			
0 to 1000 psig	PX831-1KGI	iSeries, DP41-E, DP25B-E, DP24-E			
0 to 3000 psig	PX831-3KGI	iSeries, DP41-E, DP25B-E, DP24-E			
0 to 5000 psig	PX831-5KGI	iSeries, DP41-E, DP25B-E, DP24-E			
ABSOLUTE PRESSUR	E				
0 to 15 psia	PX831-015AI	iSeries, DP41-E, DP25B-E, DP24-E			
0 to 30 psia	PX831-030AI	iSeries, DP41-E, DP25B-E, DP24-E			
0 to 100 psia	PX831-100AI	iSeries, DP41-E, DP25B-E, DP24-E			
VACUUM AND COMPO	OUND RANGES				
0 to 30 inHg vacuum	PX831-30VACI	iSeries, DP41-E, DP25B-E, DP24-E			
30 inHg vac to 15 psig	PX831-30V15GI	iSeries, DP41-E, DP25B-E, DP24-E			
30 inHg vac to 30 psig	PX831-30V30GI	iSeries, DP41-E, DP25B-E, DP24-E			
30 inHg vac to 60 psig	PX831-30V60GI	iSeries, DP41-E, DP25B-E, DP24-E			

Comes complete with operator's manual.

* Visit us online for compatible meters.

Ordering Example: PX831-100GI, industrial pressure transmitter with 0 to 100 psig range and 4 to 20 mA output.

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HAZARDOUS LOCATIONS EXPLOSION/FLAME PROOF AND IS RATED

Compound Ranges: Vac to 100 psi (-1 to 7 bar) Gage Ranges: 0 to 5 to 0 to 10,000 psi (0 to 344 mbar to 0 to 690 bar)

PX835 Series



Designed to Meet the Stringent Requirements for use in Hazardous Industrial **Locations Such as:**

Oil Field Equipment

4 to 20 mA Output

- Upstream Oil and Gas **Production**
- ✓ Natural Gas Compression and Transfer Control
- Alternative Energy **Projects**
- ✓ Fuel Cell Manufacturing

The PX835 explosion proof pressure transmitter is ideal for a broad spectrum of pressure sensing requirements, requiring approvals for explosion/flame proof. The PX835 is designed with an all welded stainless steel case and manufactured to provide the user with accurate, reliable, and stable output data. This is accomplished through the use of state of the art sensor technology combined with digital calibration to provide extremely linear and precise performance over the entire specified pressure and temperature range.

SPECIFICATIONS

Output: 4 to 20 mAdc (2-wire) Supply Voltage: 12 to 32 Vdc Vmin = 12 V + (0.022A x loop res) Insulation Resistance (Circuit to

Case): 100M Ω @ 30 Vdc

and mis-wire protected

Circuit Protection: Reverse polarity

The state of the s			
1/4 NPT male	OVERPRESSURE:	PROOF	BURST
	0/Vac to 300 psi:	1.5 x FS	2 x FS min
	500 to 10,000 psi:	1.2 x FS	1.5 x FS
	Flectrical Termina	tion: 1/4 N	IPT male

1/2 NPT male conduit fitting

Accuracy: ±0.5% TP; ±0.40% BFSL includes non-linearity, hysteresis and non-repeatability, zero offset and span setting errors (add 0.05% for ranges above 5000 psi)

Stability: ≤±0.25% span/year @ ref

conditions (21°C/70°F) Response Time: 2 ms Storage/Process/Operating Temperature: -40 to 125°C (-40 to 257°F)

Compensated Temperature: -20 to 85°C (-4 to 185°F)

Temperature Effects (Over Comp Range): 2% span **Humidity Effects:** No performance effects 0 to 95% RH, non-condensing Vibration:

Sweep: 50 to 2000 Hz, 5 g peak

Shock: 100 g peak, 11 ms Random: 10 g RMS, 20 to 2000 Hz Position Effect: ±0.02% typical

conduit fitting and 4.6 m (15') cable with

PX835 Series shown

actual size.

flying lead termination

Pressure Connection: 1/4 NPT male **Environmental Rating:** NEMA 7, 9 (IP65) **Hazardous Area Certifications: Explosion Proof - cUL (USA/CNL):**

Specify PX835; Class I, Div 1 & 2, Groups A, B, C, and D; Class II, Div 1 & 2, Groups E, F, and G Flame Proof - ATEX: Specify PX835

C €
☐ II 2 G; Ex d IIC T4

Intrinsically Safe - FM/CSA: Class I, Div 1; Class I, Div 2, non-incendive

CE Compliance: EN 61326: 1997 + A1:1998 Annex A, A2/2001

Heavy Industrial Immunity (Annex A table A.1); Light Industrial/Residential

Emission (Table 4)

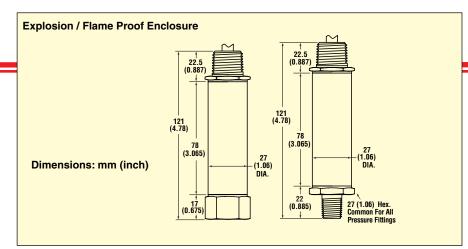
Wetted Parts: 316SS diaphragm and pressure port

Case: 304 SS

Cable Gland: Fits cable diameter 9 to 12 mm (0.35 to 0.47")

Weight: Approximately 254 g (8 oz)

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- **∠** Explosion Proof
- **✓** Flame Proof
- ✓ Instrinsically Safe



To Order Visit omega.com/px835 for Pricing and Details				
RA	NGE			
psi	bar			
1/4 NPT MALE CO	NDUIT FITTING	4 to 20 mA OUTPUT MODEL		
VACUUM and CO	OMPOUND RANGE	ES		
0 to Vac	0 to -1	PX835-15NGI		
Vac to 15	-1 to +1	PX835-015CGI		
Vac to 30	-1 to +2	PX835-030CGI		
Vac to 45	-1 to +3	PX835-045CGI		
Vac to 60	-1 to +4	PX835-060CGI		
Vac to 100	-1 to +7	PX835-100CGI		
GAGE PRESSUF	RE RANGES			
0 to 5	0 to 0.3	PX835-005GI		
0 to 10	0 to 0.7	PX835-010GI		
0 to 15	0 to 1	PX835-015GI		
0 to 30	0 to 2	PX835-030GI		
0 to 60	0 to 4	PX835-060GI		
0 to 100	0 to 7	PX835-100GI		
0 to 150	0 to 10	PX835-150GI		
0 to 200	0 to 14	PX835-200GI		
0 to 300	0 to 20	PX835-300GI		
0 to 500	0 to 34	PX835-500GI		
0 to 750	0 to 51	PX835-750GI		
0 to 1000	0 to 69	PX835-1KGI		
0 to 1500	0 to 103	PX835-1.5KGI		
0 to 2000	0 to 138	PX835-2KGI		
0 to 3000	0 to 207	PX835-3KGI		
0 to 5000	0 to 345	PX835-5KGI		
0 to 7500	0 to 517	PX835-7.5KGI		
0 to 10,000	0 to 690	PX835-10KGI		

Comes complete with 9-point NIST traceable calibration and operating instructions. For oxygen cleaning, add suffix "-X6B" to model number, for additional cost.

Ordering Example: PX835-030GI, 0 to 30 psi range pressure transmitter, 4 to 20 mA output, ¼ NPT male termination.

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PRESSURE TRANSMITTER EXPLOSION PROOF/INTRINSICALLY SAFE

PX880 Series



✓ Miniature Size

✓ All Welded 316 Stainless Steel Construction

Zero and Span Adjustability

✓ Full 5:1 Range Turndown

✓ 4 to 20 mA Output

✓ FM and CSA Ratings

The PX880 Series comprises the most compact, durable, accurate, cost-effective, full-featured pressure transmitters available. The 4 to 20 mA output is standard, with a 12 to 48 Vdc power supply.

Designed for stable performance in the toughest environments, with 316 SS welded construction, PX880 transmitters are ideal for use with corrosive media and in hazardous environments.

Both models have FM and CSA approvals for intrinsic safety and meet NACE standards for offshore applications. With the cover retained by a stainless steel chain and no internal jumpers for span turndown, losses due to misplaced or dropped parts are eliminated.

The small size and light weight of both models eliminate any complicated mounting hardware or mechanical supports, which reduces installation time substantially. The integral junction box permits simple field wiring without the need for additional hardware, and adds to the speed and ease of installation.

OPERATION

The heart of the PX880 pressure transmitter is a silicon piezoresistive sensing chip. This miniature microetched semiconductor gives

a voltage output proportional to the applied pressure. The chip is isolated from the process media by a stainless steel diaphragm. Silicone oil is used to transmit the process pressure to the sensor.

An amplifier PCB enclosed in a sealed chamber is used to convert the millivolt signal from the sensor to a calibrated 4 to 20 mA transmitter output. Feed-throughs for EMI and RF protection are used between the amplifier board and the terminal housing.

Each transmitter is tested over both pressure and temperature ranges. A compensator circuit is used to bring the output of the sensor into specification. After compensation,

every transmitter is tested a second time for pressure and temperature accomplished with a known pressure source.

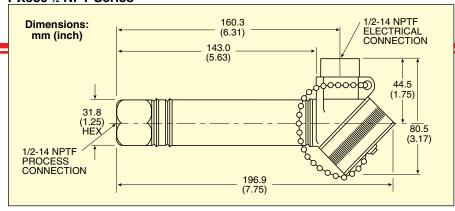
see next page.

The PX881 is flush diaphragm pressure transmitter, designed to mount flush against process media and to prevent any media particles from collecting at the diaphragm.



effects to ensure that it meets performance specifications. The transmitters are calibrated to the upper ranges listed in the order box, but end users can recalibrate them to different ranges. Recalibration is done via 3 screw potentiometers inside the transmitter's head. Recalibrating to any range between the 2 listed for a particular sensor can be

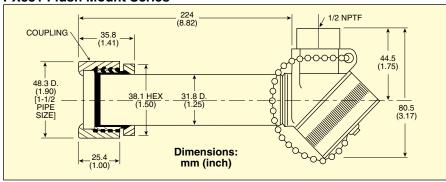
PX880 ½ NPT Series



PX880 Series ½ NPT Female Connection Transmitter

To Order					
5:1 Turndown		PX880 ½ NPT Female Connection			
RANGE psig	RANGE bar	MODEL NO.	COMPATIBLE METERS		
0-30 to 0-150 inH ₂ O	0-75 to 0-373 mbar	PX880-150WCGI	DP41-E, DP25B-E, DP24-E		
0-6 to 0-15	0-0.4 to 0-1	PX880-015GI	DP41-E, DP25B-E, DP24-E		
0-15 to 0-30	0-1 to 0-2	PX880-030GI	DP41-E, DP25B-E, DP24-E		
0-20 to 0-100	0-1.4 to 0-6.9	PX880-100GI	DP41-E, DP25B-E, DP24-E		
0-60 to 0-300	0-4.1 to 0-20.7	PX880-300GI	DP41-E, DP25B-E, DP24-E		
0-200 to 0-1000	0-13.8 to 0-68.9	PX880-1KGI	DP41-E, DP25B-E, DP24-E		
0-600 to 0-3000	0-41.4 to 0-207	PX880-3KGI	DP41-E, DP25B-E, DP24-E		
0-1000 to 0-5000	0-68.9 to 0-345	PX880-5KGI	DP41-E, DP25B-E, DP24-E		
3 to 15	0.2 to 1.0	PX880-X15GI	DP41-E, DP25B-E, DP24-E		

PX881 Flush Mount Series



PX881 Series Flush Mount Transmitter

5:1 Turndown		PX881 FLUSH MOUNT*		
RANGE psig	RANGE bar	MODEL NO.	COMPATIBLE METERS	
0-3 to 0-15	0-0.2 to 0-1.0	PX881-015GI	DP41-E, DP25B-E, DP24-E	
0-6 to 0-30	0-0.41 to 0-2.1	PX881-030GI	DP41-E, DP25B-E, DP24-E	
0-20 to 0-100	0-1.4 to 0-6.9	PX881-100GI	DP41-E, DP25B-E, DP24-E	
0-60 to 0-300	0-4.1 to 20.7	PX881-300GI	DP41-E, DP25B-E, DP24-E	

Comes complete with operator's manual.

Note: Units are shipped calibrated to highest range.

A pressure snubber should be used with all PX880 Series transmitters to suppress destructive waterhammer shock waves. Snubbers are determined by the pressure media. PS-2G for gaseous media, air, steam, etc. PS-2E for water and light oils, PS-2D for dense liquid, motor oil.

Ordering Example: PX881-030GI, flush mount transmitter with a 0-6 to 0-30 psig range, and PX881-CPL. coupling.

SPECIFICATIONS

Excitation: 12 to 40 Vdc with reverse

polarity protection

Output: 4 to 20 mA (2 wire)

Accuracy: ±0.2% of calibrated span including linearity, hysteresis and

repeatability

Max Loop Resistance: 600 Ω @ 24 Vdc $\max \Omega = (\text{supply voltage} - 12) \times 50$

Storage Temperature: -40 to 100°C (-40 to 212°F)

Operating Temperature: -40 to 100°C (-40 to 212°F)

Compensated Temperature: -29 to 82°C (-20 to 180°F)

Thermal Effects: Zero and span combined ±0.02% upper range/°F (30 to 130°F) ±0.032 wupper range/°F

(-20 to 180°F)

Proof Pressure: 200% upper range Stability: ±0.5% of upper range for

6 months

Vibration: 0.1% upper limit for 3 g

@ 200 Hz

Approvals: FM (Intrinsically Safe for Class 1, 2, 3 Div 1 Groups A, B, C, D, E, G; Explosion proof for Class 1, 2, 3

Div 1, Groups B, C, D, E, G

NEMA 4 enclosure)

CSA (Intrinsic Safety for Class 1, 2, 3, Div 1 Groups A, B, C, D, E, F, G; Explosion proof for Class 1, 2, 3 Div 1, Groups B, C, D, E, F, G Enclosure 4)

Wetted Parts: PX880: 316 SS

PX881: 316 SS, PTFE gasket and

Hastelloy diaphragm

Pressure Port: PX880: ½ NPTF

PX881: Weldolet pipe coupling Electrical Connection: ½ NPTF

Body Material: 316 SS

Cast Head: CF-8M (316 cast SS) with

Buna-N O-ring

Fluid Fill: DC 200 silicone oil Response Time: 20 ms Weight: 725 g (1.6 lb)

ACCESSORIES

MODEL NO.	DESCRIPTION
PX881-CPL	38.1 mm (1.5") pipe coupling
PX881-PLUG	Plug

^{*} Requires **PX881-CPL** 38.1 mm (1½") coupling.

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WITH HIGH OPERATING TEMPERATURE RANGE

mV/V Output 0-5000 to 0-200,000 psi 0-350 to 0-14,000 bar

1 bar = 14.5 psi $1 \text{ kg/cm}^2 = 14.22 \text{ psi}$ 1 atmosphere = 14.7 psi = 29.93inHg = 760.2 mmHg = 1.014 bar

PX91 Series



- ✓ All Stainless Steel Construction
- High Operating Temperature, Up to 204°C (400°F)
- Hermetically Sealed for **Harsh Environments**

OMEGA's PX91 is a rugged, ultra-high pressure transducer series. Hermetically sealed, with all stainless steel construction, it is designed for use in test chambers. The PX91 is available in sealed gage pressures up to 200,000 psi. It has a high operating temperature up to 204°C (400°F). The pressure connection is via a high-pressure ferrule connection.

Cable style.
PX91N0-10KSV, shown smaller than actual size.

To Order						
RANGE		MODEL NO.	COMPATIBLE METERS**			
CABLE STYLE,	CABLE STYLE, SEALED GAGE PRESSURE					
0 to 5000 psi	0 to 345 bar	PX91N0-5KSV	DP41-S, DP25B-S			
0 to 10,000 psi	0 to 689 bar	PX91N0-10KSV	DP41-S, DP25B-S			
0 to 15,000 psi	0 to 1034 bar	PX91N0-15KSV	DP41-S, DP25B-S*			
0 to 20,000 psi	0 to 1379 bar	PX91N0-20KSV	DP41-S, DP25B-S*			
0 to 30,000 psi	0 to 2068 bar	PX91N0-30KSV	DP41-S, DP25B-S*			
0 to 35,000 psi	0 to 2413 bar	PX91N0-35KSV	DP41-S, DP25B-S*			
0 to 50,000 psi	0 to 3447 bar	PX91N0-50KSV	DP41-S, DP25B-S*			
0 to 60,000 psi	0 to 4137 bar	PX91N0-60KSV	DP41-S, DP25B-S*			
0 to 80,000 psi	0 to 5516 bar	PX91P0-80KSV	DP41-S, DP25B-S*			
0 to 100,000 psi	0 to 6895 bar	PX91P0-100KSV	DP41-S, DP25B-S*			
0 to 120,000 psi	0 to 8274 bar	PX91P0-120KSV	DP41-S, DP25B-S*			
0 to 150,000 psi	0 to 10,342 bar	PX91P0-150KSV	DP41-S, DP25B-S*			
0 to 200,000 psi	0 to 13,790 bar	PX91P0-200KSV	DP41-S, DP25B-S*			

Comes complete with 5-point NIST traceable calibration. Metric ranges available - consult Engineering.

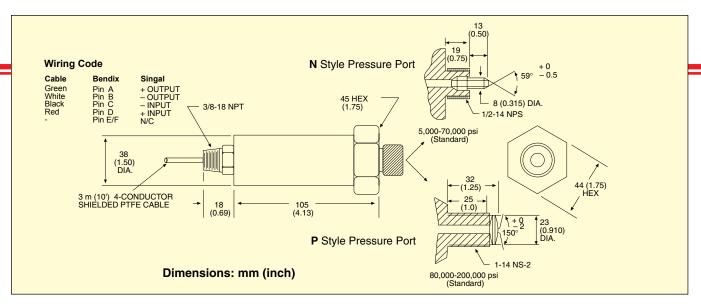
Ordering Examples: PX91P0-100KSV, 100,000 psi sealed gage model with 1-14 NS fitting and 3 m (10') cable.

PX91N0-15KSV, 15,000 psi sealed gage model with ½-14 NPSM fitting and 3 m (10') cable.

^{* 4-}digit meter. ** Visit us online for compatible meters.

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SPECIFICATIONS

mV/V Output

Excitation: 10 Vac/Vdc (15V max)

Output: 1 mV/V ±0.5%

Bridge Resistance: 350 Ω nominal

Zero Balance: ±2.5%

Linearity:

≤70K psi: ±0.35% FSO >70K psi: ±0.50% FSO Hysteresis: ±0.10% FSO Repeatability: ±0.10% FSO Operating Temp Range: -56 to 204°C (-70 to 400°F)

Electrical Connection: 3 m (10') 4-conductor shielded cable

Compensated Temp Range: 21 to 218°C (70 to 425°F)

Thermal Effects:

Span: 0.01% rdg/°F **Zero:** 0.01% FSO/°F

Proof Pressure:

≤**70K psi:** 120% of rated pressure >**70K psi:** 110% of rated

pressure

Burst Pressure:

≤**70K psi:** 150% of rated

pressure

>70K psi: 120% of rated

pressure

Wetted Parts:

≤70K psi: 17-4 PH stainless steel
>70K psi: 455 stainless steel

Pressure Port:

≤**70K psi**: ½-14 NPSM

(use with 0.315" dia. 59° ferrule) >70K psi: 1-14 NS-2

(use with 0.910" dia 150° ferrule)

Calibration:

≤30k psi: Full scale calibration >30k psi: Calibration up to 30k psi. Consult Sales for full scale price.



CUSTOM CONFIGURATIONS

PX91 PRESSURE ELECTR SERIES PORT CONNEC [1] [2	TION (psi)	UNITS [4]	OUTPUT [5]	OPTIONS [6]
Ranges ≤70,000 psi N = ½-14 NPSM (use with 0.315" dia. 59° ferrule) Ranges >70,000 psi P= 1-14 NS-2 (use with 0.910" dia. 150° ferrule) 0 = 3 m (10') PTFE 1 = PTIH-10-6P Co	001	S = Sealed gage	V = mV/V	Visit us online for additional options.
Metric ranges available – consult Engine	200K		 Select a Select e Select a 	pressure port lectrical connection pressure range ressure units utput

To order extra cable on cable style models, add suffix "-(length in feet) FT" for additional cost per foot beyond the standard 3 m (10') length. Ordering Examples: PX91N0-50KSV-25FT, 50,000 psi sealed gage pressure range model with mV/V output, ½-14 NPSM fitting and 7.6 m (25') cable.

PX91P0-100KSV, 100,000 psi sealed gage pressure range model with mV output, 1-14 NS-2 fitting and 3 m (10') cable.

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TRANSDUCERS CABLE OR CONNECTOR STYLE

0-5 Vdc Output 0-5000 to 0-200,000 psi 0-350 to 0-14,000 bar

1 bar = 14.5 psi 1 kg/cm² = 14.22 psi 1 atmosphere = 14.7 psi = 29.93 inHg = 760.2 mmHg = 1.014 bar

PX91 Series





Cable style.

- ✓ Ranges Up to 200,000 psi
- ✓ High Operating Temperature, Up to 121°C (250°F)
- Hermetically Sealed for Harsh Environments
- ✓ Internal Shunt Resistor

OMEGA's PX91 amplified output series comprises rugged, high-temperature/ultra-high-pressure transducers. They are hermetically sealed, with all stainless steel construction, and are designed for the harshest test chamber environments. The PX91 is available in sealed gage pressures from 5000 psi to 200,000 psi. The electrical connection is either a sealed connector or a lightning-protected, amplifier housing. The pressure connection is via a high-pressure ferrule.

To Order					
RANGE		MODEL NO.	COMPATIBLE METERS**		
SEALED GAGE	PRESSURE - [*]	INSERT "0" FOR CAB	LE OR "1" FOR CONNECTOR		
0 to 5000 psi	0 to 345 bar	PX91N[*]-5KS5T	DP41-E, DP25B-E, DP24-E		
0 to 10,000 psi	0 to 689 bar	PX91N[*]-10KS5T	DP41-E, DP25B-E, DP24-E		
0 to 15,000 psi	0 to 1034 bar	PX91N[*]-15KS5T	DP41-E, DP25B-E*, DP24-E*		
0 to 20,000 psi	0 to 1379 bar	PX91N[*]-20KS5T	DP41-E, DP25B-E*, DP24-E*		
0 to 30,000 psi	0 to 2068 bar	PX91N[*]-30KS5T	DP41-E, DP25B-E*, DP24-E*		
0 to 35,000 psi	0 to 2413 bar	PX91N[*]-35KS5T	DP41-E, DP25B-E*, DP24-E*		
0 to 50,000 psi	0 to 3447 bar	PX91N[*]-50KS5T	DP41-E, DP25B-E*, DP24-E*		
0 to 60,000 psi	0 to 4137 bar	PX91N[*]-60KS5T	DP41-E, DP25B-E*, DP24-E*		
0 to 80,000 psi	0 to 5516 bar	PX91P[*]-80KS5T	DP41-E, DP25B-E*, DP24-E*		
0 to 100,000 psi	0 to 6895 bar	PX91P[*]-100KS5T	DP41-E, DP25B-E*, DP24-E*		
0 to 120,000 psi	0 to 8274 bar	PX91P[*]-120KS5T	DP41-E, DP25B-E*, DP24-E*		
0 to 150,000 psi	0 to 10,342 bar	PX91P[*]-150KS5T	DP41-E, DP25B-E*, DP24-E*		
0 to 200,000 psi	0 to 13,790 bar	PX91P[*]-200KS5T	DP41-E, DP25B-E*, DP24-E*		

Comes complete with 5-point NIST traceable calibration. Metric ranges available – consult Engineering.

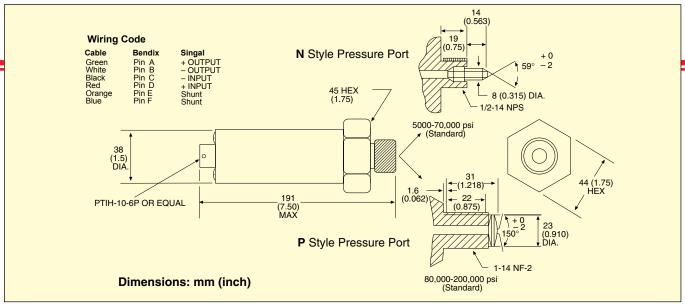
[*] Insert "0" for 3 m (10') cable, "1" for connector style or "5" for amplifier housing.

Ordering Examples: PX91N1-60KS5T, 60,000 psi sealed gage model with 0 to 5 Vdc output, ½ -14 NPSM fitting, connector style. PT06F10-6S-R, mating connector (sold separately).

PX91P0-80KS5T, 80,000 psi sealed gage model with 0 to 5 Vdc output, 1-14 NS fitting and 3 m (10') PTFE cable.

^{* 4-}digit meter.

^{**} Visit us online for compatible meters.



SPECIFICATIONS

Excitation: 28 Vdc ±4 V Output: 0 to 5 Vdc ±10% adj Zero Balance: 0 V ±10% FSO adj

Non-Linearity: ≤70K psi: 0.35% FS

>70K psi: 0.5% FS Hysteresis: 0.10% FS Repeatability: 0.10% FS **Operating Temp Range:** -46 to 121°C (-50 to 250°F)

Shunt: 80% FSO

Compensated Temp Range: 17 to 71°C (60 to 160°F)

Thermal Effects:

Span: 0.005% rdg/°F **Zero:** 0.005% FSO/°F

Proof Pressure:

≤50k PSI: 120% of rated pressure >50k PSI: 110% of rated pressure

Burst Pressure:

≤50k PSI: 150% of rated

pressure

>50k PSI: 120% of rated

pressure

Wetted Parts:

≤**70K:** 17-4 PH SS >70K: 455 SS

Pressure Port:

≤**70K psi:** ½-14 NPSM (fits 0.315" dia. 59° ferrule) >70K psi: 1-14 NS-2 (use 0.910" dia. 150° ferrule)

Electrical Connection: PTIH-10-6P or 10' cable Optional: Lightning-protected

amplifier housing

Mating Connector: For connector style,

PT06F10-6S-R (sold separately)



CUSTOM CONFIGURATIONS

SERIES PORT CONNE	RICAL RANGE ECTION (psi) 2] [3]	UNITS [4]	О UТР UТ [5]	OPTIONS [6]
Ranges ≤70,000 psi N = ½-14 NPSM (use with 0.315" dia. 59° ferrule) Ranges >70,000 psi P= 1-14 NS-2 (use with 0.910" dia. 150° ferrule) 0 = 3 m (10') cat + add cost/f 3 m (10') 1 = PTIH-10-6P (or equal, no Mating connected (sold separare PT06F10-6S Amplified Models Only Metric ranges available – consult Engin	t over 80K 100K 100K connector 120K charge) 150K ector 200K tely), order -R otected sing	S = Sealed gage	1. Select a p 2. Select ele	

To order extra cable on cable style models, add suffix "-(length in feet) FT" for additional cost per foot beyond the standard 3 m (10') length. Ordering Examples: PX91P5-100KS5T, 100,000 psi sealed gage pressure range model with 0 to 5 Vdc output, 1-14 NS-2 fitting and lightning-protected amplifier housing. PX91P1-80KS5T, 80,000 psi sealed gage pressure range model with 0 to 5 Vdc output, 1-14 NS-2 fitting and integral connector. PT06F10-6S-R, mating connector (sold separately). PX91N0-50K5T-25FT, 50,000 psi sealed gage pressure range model with 0 to 5 Vdc output,NPSM fitting and 7.6 m (25') cable. PX91P0-100KS5T, 100,000 psi sealed gage pressure range model with 0 to 5 Vdc output, 1-14 NS fitting and twist-lock 6 pin connector. PT06F10-6S-R, mating connector (sold separately).

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4 to 20 mA Output 0-5000 to 0-200,000 psi 0-350 to 0-14,000 bar

1 bar = 14.5 psi 1 kg/cm² = 14.22 psi 1 atmosphere = 14.7 psi = 29.93 inHg = 760.2 mmHg = 1.014 bar

PX91 Series



- ✓ Ranges Up to 200,000 psi
- ✓ All Stainless Steel Case
- ✓ High Operating Temperature, Up to 121°C (250°F)
- Lightning-Protected Amplifier Housing

OMEGA's PX91 amplified output series comprises rugged, high-temperature/ultra high-pressure transducers. They are hermetically sealed, with all stainless steel construction, and are designed for the harshest test chamber environments. The PX91 is available in sealed gage pressures from 5000 psi to 200,000 psi. The electrical connection is a lightning-protected amplifier housing. The pressure connection is via a high-pressure ferrule.



To Order Visit omega.com/px91-ic for Pricing and Details							
RANGE		MODEL NO.	COMPATIBLE METERS**				
PROTECTED H	EAD STYLE, SEA	LED GAGE PRES	SURE, 4 to 20 mA OUTPUT				
0 to 5000 psi	0 to 345 bar	PX91N5-5KSI	DP41-E, DP25B-E, DP24-E				
0 to 10,000 psi	0 to 689 bar	PX91N5-10KSI	DP41-E, DP25B-E, DP24-E				
0 to 15,000 psi	0 to 1034 bar	PX91N5-15KSI	DP41-E, DP25B-E*, DP24-E*				
0 to 20,000 psi	0 to 1379 bar	PX91N5-20KSI	DP41-E, DP25B-E*, DP24-E*				
0 to 30,000 psi	0 to 2068 bar	PX91N5-30KSI	DP41-E, DP25B-E*, DP24-E*				
0 to 35,000 psi	0 to 2413 bar	PX91N5-35KSI	DP41-E, DP25B-E*, DP24-E*				
0 to 50,000 psi	0 to 3447 bar	PX91N5-50KSI	DP41-E, DP25B-E*, DP24-E*				
0 to 60,000 psi	0 to 4137 bar	PX91N5-60KSI	DP41-E, DP25B-E*, DP24-E*				
0 to 80,000 psi	0 to 5516 bar	PX91P5-80KSI	DP41-E, DP25B-E*, DP24-E*				
0 to 100,000 psi	0 to 6895 bar	PX91P5-100KSI	DP41-E, DP25B-E*, DP24-E*				
0 to 120,000 psi	0 to 8274 bar	PX91P5-120KSI	DP41-E, DP25B-E*, DP24-E*				
0 to 150,000 psi	0 to 10,342 bar	PX91P5-150KSI	DP41-E, DP25B-E*, DP24-E*				
0 to 200,000 psi	0 to 13,790 bar	PX91P5-200KSI	DP41-E, DP25B-E*, DP24-E*				

Comes complete with 5-point NIST traceable calibration and operator's manual. Metric ranges available – consult Engineering.

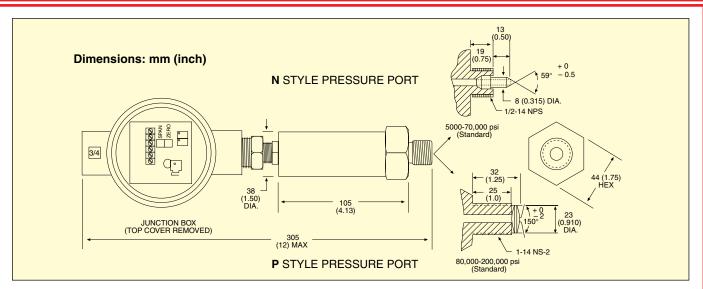
Ordering Examples: PX91N5-60KSI, 60,000 psi sealed gage model with 4 to 20 mA output, $\frac{1}{2}$ -14 NPSM fitting and lightning-protected amplifier housing.

PX91P5-80KSI, 80,000 psi sealed gage model with 4 to 20 mA output, 1-14 NS fitting and lightning-protected amplifier housing.

^{* 4-}diait meter.

^{**} See omega.com for compatible meters.

ULTRA-HIGH-PRESSURE TRANSMITTER



SPECIFICATIONS 4 to 20 mA Output

ELECTRICAL

Excitation: 12 to 40 Vdc

Output: 4 to 20 mA ±10% adj

Zero Balance: 4 mA +10% -2% adj

Linearity:

≤70K psi: ±0.35% FSO >70K psi: ±0.50% FSO Hysteresis: ±0.10% FSO Repeatability: ±0.10% FSO Operating Temp Range: -46 to 121°C (-50 to 250°F) **Compensated Temp Range:**

17 to 71°C (60 to 160°F)

Thermal Effects:

Span: 0.005% rdg/°F **Zero:** 0.005% FSO/°F

Proof Pressure:

≤50k PSI: 120% of rated pressure >50k PSI: 110% of rated pressure

Burst Pressure:

≤50k PSI: 150% of rated pressure >50k PSI: 120% of rated pressure

Wetted Parts:

≤**70K psi:** 17-4 PH stainless steel >**70K psi:** 455 stainless steel

Pressure Port:

≤70K psi: ½-14 NPSM (use 0.315" dia. 59° ferrule) >70K psi: 1-14 NS-2 (use 0.910" dia. 150° ferrule) Electrical Connection: Terminal strip inside lightning-protected

amplifier housing

Optional: PTIH-10-6P or equal **Mating Connector:** PT06F10-6S-R

(sold separately)

CUSTOM CONFIGURATIONS

PX91 PRESSURE ELECTRICAL CONNECTION [1] [2]	RANGE (psi) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
Ranges ≤70,000 psi N = ½-14 NPSM (use with 0.315" dia 59° ferrule) Ranges >70,000 psi P= 1-14 NS-2 (use with 0.910" dia. 150° ferrule) 0 = 3 m (10') PTFE cable + add cost/ft over 3 m (10') 1 = PTIH-10-6P connector (or equal, no charge) Mating connector (sold separately), order (sold separately), order PT06F10-6S-R Amplified Models Only 5 = Lightning-protected amplifier housing (no charge)	5K 10K 15K 20K 30K 35K 50K 60K 80K 100K 120K 150K 200K	S = Sealed gage	To order a cu 1. Select a pre	See omega.com for additional options. stom configuration: essure port rical connection essure range sure units
Metric ranges available – consult Engineering.				

To order extra cable on cable style models, add suffix "-(length in feet) FT" for additional cost per foot beyond the standard 3 m (10') length. Ordering Examples: PX91P5-100KSI, 100,000 psi sealed gage pressure range model with 4 to 20 mA output, 1-14 NS-2 fitting and lightning-

protected amplifier housing.

PX91P1-100KSI, 100,000 psi sealed gage pressure range model with 4 to 20 mA output, 1-14 NS fitting and integral twist-lock connector. **PT06F10-6S-R,** mating connector (sold separately).

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LONG TERM RELIABILITY

4 to 20 mA Output 0-5 to 0-15,000 psi 0-0.4 to 0-1000 bar

PX920 Series



- ✓ Silicon-on-Sapphire Sensor Assures High Stability and Repeatability
- ✓ High Accuracy 0.2%
- ✓ NEMA 4 (IP65) Stainless Steel Body
- ✓ Solid State Reliability
- High Shock and Vibration
- ✓ Low Drift

Typical Applications

- ✓ Mechanical and Civil **Engineering Projects**
- ✓ Process Plants
- Production Test **Facilities**
- **✓** Water Resource Management
- **✓** Power Generation

OMEGA's PX920 series are extremely tough process transmitters suitable for use in demanding process and industrial applications. Rugged stainless steel construction and featuring S.O.S. technology with a custom IC amplifier give the PX920 series high stability, low drift and long life.

Important features of this transmitter include easily accessible zero and span adjustment for simplified setup and recalibration.

SOS construction uses very stabile solid state silicon strain gages on a Sapphire carrier which is glass bonded to a titanium diaphragm. This combination provides a very durable transducer which has excellent stability over a wide temperature range. Additionally, the all titanium diaphragm and Stainless Steel wetted parts provide maximum duribility and corrosion resistance to harsh industrial chemicals.

To Order		
MODEL NO.	RANGE (psig)	COMPATIBLE METERS
PX920-30VACI	30 inHg to 0	DP41-E, DP25-E, DP24-E
PX920-005GI	0 to 5	DP41-E, DP25-E, DP24-E
PX920-010GI	0 to 10	DP41-E, DP25-E, DP24-E
PX920-015GI	0 to 15	DP41-E, DP25-E, DP24-E
PX920-030GI	0 to 30	DP41-E, DP25-E, DP24-E
PX920-060GI	0 to 60	DP41-E, DP25-E, DP24-E
PX920-100GI	0 to 100	DP41-E, DP25-E, DP24-E
PX920-150GI	0 to 150	DP41-E, DP25-E, DP24-E
PX920-200GI	0 to 200	DP41-E, DP25-E, DP24-E
PX920-300GI	0 to 300	DP41-E, DP25-E, DP24-E
PX920-600GI	0 to 600	DP41-E, DP25-E, DP24-E
PX920-1KGI	0 to 1K	DP41-E, DP25-E, DP24-E
PX920-1.5KGI	0 to 1.5K	DP41-E, DP25-E, DP24-E
PX920-3KGI	0 to 3K	DP41-E, DP25-E, DP24-E
PX920-6KGI	0 to 6K	DP41-E, DP25-E, DP24-E
PX920-10KGI	0 to 10K	DP41-E, DP25-E, DP24-E
PX920-15KGI	0 to 15K	DP41-E, DP25-E*, DP24-E*

* 4-digit meters

Metric ranges available—consult engineering

PX920-100GI,

shown smaller than actual size.

Ordering Example: PX920-1KGI, 1000 psi transducer with 4 to 20 mA output, PG9 cable gland and internal terminal block electrical connection with ½ male NPT pressure port.

PX931 Series



- Rugged Stainless Steel Case Protects Components in Industrial Environments
- ✓ Connects to a PT06F10-6S-R Connector for Easy Field Connections
- Stainless Steel Diaphragm Welded for Compatibility with Most Media
- Uses a Standard 10 Vdc Regulated Power Supply for Maximum Versatility
- ¼ NPT Process Fitting for Fast, Easy, and Secure Installation
- Excellent Temperature Stability
- Units 100 psi and Below are Vented Gage for High Precision

SPECIFICATIONS

Excitation: 10 Vdc (15 Vdc max)

@ 30 mA

Output: 30 mV ±0.25% @ 10 Vdc

Sensitivity: 3 mV/V

Input Impedance: $350~\Omega$ min Output Resistance: $350~\pm 5~\Omega$ Insulation Resistance: $>5~\text{M}\Omega$

@ 75 Vdc

Accuracy: 0.15%Hysteresis: $\pm 0.10\%$ Repeatability: $\pm 0.05\%$ Zero Balance: $\pm 1.0\%$ Shunt Calibration: $59 \text{ k}\Omega$ Operating Temperature Range:

-73 to 163°C (-100 to 325°F)

Compensated Temperature Range:

Compensated Temperature Range

16 to 71°C (60 to 160°F)

PX931-3KSV, shown smaller than actual size.

Thermal Zero Effect: ±0.005% FS/°F

Thermal Sensitivity Effect:

±0.005% rdg/°F

Proof Pressure: 150% of range Burst Pressure: 300% of range Body Material: 17-4 PH stainless

steel, hermetically sealed

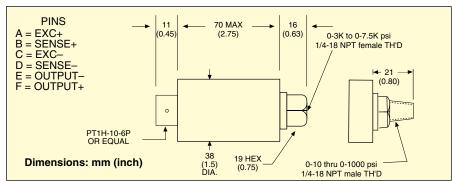
Diaphragm Material: 17-4 PH SS

Pressure Port: ¼-18 NPT Male Thread: 10 to 1000 psi Female Thread: 3000 to 7500 psi Mating Connector PT06F10-6S-R

(not included)

Pressure Cavity Volume: 0.171 in³

Weight: 290 g (10 oz)



To Order								
RANGE		MODEL NO.	COMPATIBLE METERS*					
0 to 10 psi	0 to 0.69 bar	PX931-010GV	DP41-S, DP25B-S, DP3002-S					
0 to 25 psi	0 to 1.72 bar	PX931-025GV	DP41-S, DP25B-S, DP3002-S					
0 to 50 psi	0 to 3.4 bar	PX931-050GV	DP41-S, DP25B-S, DP87					
0 to 100 psi	0 to 6.9 bar	PX931-100SV	DP41-S, DP25B-S, DP87					
0 to 200 psi	0 to 13.8 bar	PX931-200SV	DP41-S, DP25B-S, DP3002-S					
0 to 500 psi	0 to 34.5 bar	PX931-500SV	DP41-S, DP25B-S, DP87					
0 to 1000 psi	0 to 68.9 bar	PX931-1KSV	DP41-S, DP25B-S, DP87					
0 to 3000 psi	0 to 207 bar	PX931-3KSV	DP41-S, DP25B-S, DP41-S					
0 to 5000 psi	0 to 345 bar	PX931-5KSV	DP41-S, DP25B-S,DP87					
0 to 7500 psi	0 to 517 bar	PX931-7.5KSV	DP41-S, DP25B-S, DP87					

Comes with 5-point calibration.

* Visit us online for compatible meters.

Absolute ranges available. Change "G" to "A" in model number, for additional cost.

Ordering Examples: PX931-500SV, 500 psi sealed gage pressure transducer. PX931-025GV, 25 psi gage pressure transducer. PT06F10-6S-R, mating connector

(sold separately).

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PX941A Series 0-10 to 0-7500 psi 0-0.7 to 0-500 bar





107 MAX (4.20)



- Stainless Steel Diaphragm for Compatibility with **Most Media**
- ✓ ¼ NPT Fitting for Fast, Easy, and Secure Installation
- Rugged Stainless Steel **Case Protects** Components from **Industrial Environments**
- Quick-Disconnect Style for **Easy Field Connections**
- ✓ 2-Wire, 4 to 20 mA Output **Provides Excellent Noise** Immunity over Long Cable Runs
- Adjustable Zero and Span
- ✓ Units ≤50 psi are Vented Gage for High Precision

SPECIFICATIONS

Excitation: 12 to 40 Vdc @ 20 mA Output: 4 to 20 mA (2 wire)

(±10% adjustable)

Insulation Resistance: 5 MΩ @ 75 Vdc

PERFORMANCE

Accuracy: ±0.15% (combined effect of linearity, hysteresis and repeatability) Shunt Value: On calibration sheet

(80% FS)

Hysteresis: ±0.10% typical Repeatability: ±0.05% typical Zero Balance: 4 mA (+10%, -2% adj)

Operating Temperature Range: -18 to 85°C (0 to 185°F)

Compensated Temperature Range:

16 to 71°C (60 to 160°F) Thermal Zero Effect:

±0.005% full scale/°F

Thermal Sensitivity Effect:

Proof Pressure: 150% range Burst Pressure: 300% range

CONSTRUCTION

Wiring Code

A: B: C: D: E: F

Connection

SHUNT

Zero Adjust

+ INPUT – INPUT

n/c

n/c

PT1H-10-6P OR EQUAL

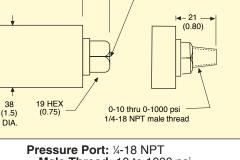
Dimensions: mm (in)

(0.75)

28.5 Flat

Body Material: 17-4 PH stainless steel

Diaphragm Material: 17-4 PH stainless steel



0-3K and 0-7.5K psi

1/4-18 NPT female thread

(0.63)

Male Thread: 10 to 1000 psi Female thread: 3000 to 7500 psi Mating Connector: PT06F10-6S-R

(not included)

Weight: 383 g (13.5 oz)

MOST POPULAR MODELS HIGHLIGHTED!

To Order <i>(Specify Model Number)</i>							
RANGE		MODEL NO.	COMPATIBLE METERS*				
0 to 10 psi	0 to 0.69 bar	PX941A-010GI	DP41-E, DP25B-E, DP460				
0 to 25 psi	0 to 1.7 bar	PX941A-025GI	DP41-E, DP25B-E, DP460				
0 to 50 psi	0 to 3.4 bar	PX941A-050GI	DP41-E, DP25B-E, DP460				
0 to 100 psi	0 to 6.9 bar	PX941A-100SI	DP41-E, DP25B-E, DP460				
0 to 200 psi	0 to 13.8 bar	PX941A-200SI	DP41-E, DP25B-E, DP460				
0 to 500 psi	0 to 34.5 bar	PX941A-500SI	DP41-E, DP25B-E, DP460				
0 to 1000 psi	0 to 68.9 bar	PX941A-1KSI	DP41-E, DP25B-E, DP460				
0 to 3000 psi	0 to 207 bar	PX941A-3KSI	DP41-E, DP25B-E, DP460				
0 to 5000 psi	0 to 345 bar	PX941A-5KSI	DP41-E, DP25B-E, DP460				
0 to 7500 psi	0 to 517 bar	PX941A-7.5KSI	DP41-E, DP25B-E, DP460				

Comes with 5-point calibration.

Absolute ranges available. Change "G" or "S" to "A" in model number.

Ordering Examples: PX941A-050GI, 50 psi gage transmitter with 4 to 20 mA output. PX941A-1KSI,1000 psi sealed gage transmitter with 4 to 20 mA output.

PT06F10-6S-R, mating connector (not included).

ACCESSORY

ACCECCOM		
MODEL NO.	DESCRIPTION	
EE-2584	Reference Book: Process Plant Instrumentation	

^{*} See section D for compatible meters.

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PRESSURE TRANSDUCER WITH SHUNT FOR QUICK CALIBRATION CHECKS

PX951 Series 0-10 to 0-7500 psi 0-0.7 to 0-500 bar





- Stainless Steel Diaphragm for Compatibility with Most Media
- ✓ ¼ NPT Fitting for Fast, Easy, and Secure Installation
- Rugged Stainless Steel **Case Protects** Components from Industrial Environments
- Quick Disconnect Style for **Easy Field Connections**
- ✓ 0 to 5 Vdc Output for **Maximum Versatility**
- Adjustable Zero and Span
- ✓ Units ≤ 50 psi are Vented Gage for High Precision

SPECIFICATIONS

Excitation: 24 to 32 Vdc @ 25 mA Output: 0 to 5 Vdc (4 wire) ±10% adj Insulation Resistance: 5 MΩ @ 75 Vdc

PERFORMANCE

Accuracy: ±0.15% (combined effect of linearity, hysteresis and repeatability)

Hysteresis: ±0.10% typical Repeatability: +0.05% typical Zero Balance: 0 Vdc ±10% adi Shunt Value: 80% full scale Response Time: 2 ms

Operating Temperature Range: -45 to 121°C (-50 to 250°F)

Compensated Temperature Range:

16 to 71°C (60 to 160°F) Thermal Zero Effect:

±0.005% full scale/°F **Thermal Sensitivity Effect:**

±0.005% reading/°F

Proof Pressure: 150% range

117 MAX (4.6) (0.63)0-3K and 0-7.5K psi Wiring Code 1/4-18 NPT female threaad Connection (0.45)+ EXC - OUT - EXC + OUT A: B: C: D: E: F: **■**- 21 (0.80)SHUNT PT1H-10-6P OR EQUAL Zero Adjust Span Adjust (on end) 38 19 HFX 0-10 thru 0-1000 psi (1.5)(0.75) 28.5 Flat 1/4-18 NPT male thread DIA. Dimensions: mm (in)

Burst Pressure: 300% range

CONSTRUCTION

Body Material: 17-4 PH stainless steel

Diaphragm Material: 17-4 PH stainless steel

Pressure Port: 1/4-18 NPT

Male Thread: 10 to 1000 psi Female thread: 3000 to 7500 psi Mating Connector: PT06F10-6S-R

(not included)

Weight: 383 g (13.5 oz)

MOST POPULAR MODELS HIGHLIGHTED!

To Order <i>(Specify Model Number)</i>							
RANGE		MODEL NO.	COMPATIBLE METERS*				
0 to 10 psi	0 to 0.69 bar	PX951-010G5V	DP41-E, DP25B-E, DP460				
0 to 25 psi	0 to 1.7 bar	PX951-025G5V	DP41-E, DP25B-E, DP460				
0 to 50 psi	0 to 3.4 bar	PX951-050G5V	DP41-E, DP25B-E, DP460				
0 to 100 psi	0 to 6.9 bar	PX951-100S5V	DP41-E, DP25B-E, DP460				
0 to 200 psi	0 to 13.8 bar	PX951-200S5V	DP41-E, DP25B-E, DP460				
0 to 500 psi	0 to 34.5 bar	PX951-500S5V	DP41-E, DP25B-E, DP460				
0 to 1000 psi	0 to 68.9 bar	PX951-1KS5V	DP41-E, DP25B-E, DP460				
0 to 3000 psi	0 to 207 bar	PX951-3KS5V	DP41-E, DP25B-E, DP460				
0 to 5000 psi	0 to 345 bar	PX951-5KS5V	DP41-E, DP25B-E, DP460				
0 to 7500 psi	0 to 517 bar	PX951-7.5KS5V	DP41-E, DP25B-E, DP460				

Comes with 5-point calibration.

Absolute ranges available, replace "G" or "S" with "A" in model number.

Ordering Examples: PX951-050G5V, 50 psi gage transmitter with 0 to 5 Vdc output.

PX951-1KA5V, 1000 psi absolute transmitter with 0 to 5 Vdc output.

PT06F10-6S-R, mating connector (not included).

ACCESSORY

ACCECCOIII		
MODEL NO.	DESCRIPTION	
ME-1756	Reference Book: Practical Injection Molding	

^{*} See section D for compatible meters.

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PRESSURE SENSORS

TEMPERATURE COMPENSATED

Gage, Absolute or Differential Pressure 4 inH₂0 to 150 psi 10 mbar to 10 bar

PXCPC Series

- ✓ Low Cost, Small Size, PC Board Mountable
- Micromachined Silicon **Technology**
- High Impedance, Low **Current Draw**
- ✓ 4-Pin Package
- ✓ For Use with Clean **Dry Gases**



The PXCPC Series pressure sensors come standard with tube pressure ports and use stateof-the-art micromachined silicon technology to deliver accurate, stable pressure measurement in a miniature package. On sensors of 5 psi and above the high side of the silicon is protected by a silicone gel coating. The sensors are designed for use with non-corrosive non-ionic gases. Many industrial and research gases fall into this category.



PXCPC

SPECIFICATIONS

@ 12 Vdc, 25°C (77°F)

Excitation: 12 Vdc typical (3 Vdc minimum to 16 Vdc maximum) Output mV (@ 12 Vdc) Range:

4 inH₂O: 25 ±2 mV 10 inH2O: 20 ±1 mV 1 psi: 18 ±1 mV 5 psi: 60 ±1 mV 15 to 60 psi: 90 ±5 mV 100 psi: 100 ±5 mV 150 psi: 90 ±5 mV

Linearity, Hysteresis Error: 0.25%

typical 1% maximum

Operating Temperature: -25 to 85°C

(-13 to 185°F)

Compensated Temperature: 0 to 70°C (32 to 158°F)

Thermal Effects Zero Shift: ±1.0 mV Span Shift: ±2.0% span Input Impedance: $5 \text{ k}\Omega$ Output Impedance: $3 \text{ k}\Omega$ Over Pressure (Maximum)

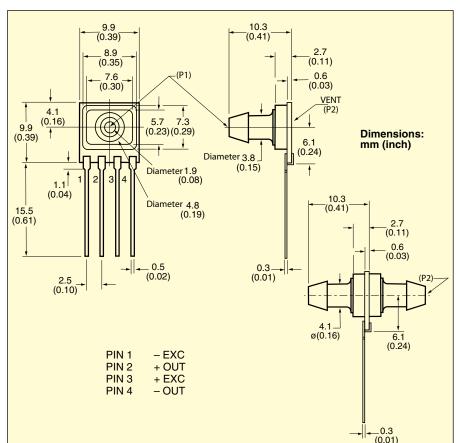
Absolute: The lesser of 3 x full scale or 250 psi

Gage/Diff:

≤ 1 psi Range: 3 psi maximum >1 psi: The lesser of 3 x full scale of 250 psi

Common Mode Pressure:

50 psi maximum Weight: 2 g (0.06 oz)



RAN	GE			
psi	bar	MODEL NO.	DESCRIPTION	
GE PRESSURI	Ē			
0 to 4 inH ₂ O	0 to 10 mb	PXCPC-004WCGV	4 inH ₂ O miniature pressure sensor	
) to 10 inH ₂ O	0 to 25 mb	PXCPC-010WCGV	10 inH ₂ O miniature pressure sensor	
0 to 1 psi	0 to 69 mb	PXCPC-001GV	1 psig miniature pressure sensor	
0 to 5	0 to 345 mb	PXCPC-005GV	5 psig miniature pressure sensor	
0 to 15	0 to 1 bar	PXCPC-015GV	15 psig miniature pressure sensor	
0 to 30	0 to 2	PXCPC-030GV	30 psig miniature pressure sensor	
0 to 60	0 to 4	PXCPC-060GV	60 psig miniature pressure sensor	
0 to 100 0 to 7		PXCPC-100GV	100 psig miniature pressure sensor	
0 to 150	0 to 10	PXCPC-150GV	150 psig miniature pressure sensor	
SOLUTE PRES	SURE			
0 to 15	0 to 1 bar	PXCPC-015AV	15 psia miniature pressure sensor	
0 to 30	0 to 2	PXCPC-030AV	30 psia miniature pressure sensor	
0 to 60	0 to 4	PXCPC-060AV	60 psia miniature pressure sensor	
0 to 100	0 to 7	PXCPC-100AV	100 psia miniature pressure sensor 150 psia miniature pressure sensor	
0 to 150	0 to 10	PXCPC-150AV		
FFERENTIAL P	RESSURE			
0 to 4 inH ₂ O	0 to 10 mb	PXCPC-004WCDV	4 inH ₂ O miniature pressure sensor	
) to 10 inH ₂ O	0 to 25 mb	PXCPC-010WCDV	10 inH ₂ O miniature pressure sensor	
0 to 1 psi	0 to 69 mb	PXCPC-001DV	1 psid miniature pressure sensor	
0 to 5	0 to 345 mb	PXCPC-005DV	5 psid miniature pressure sensor	
0 to 15	0 to 1 bar	PXCPC-015DV	15 psid miniature pressure sensor	
0 to 30	0 to 2	PXCPC-030DV	30 psid miniature pressure sensor	
0 to 60	0 to 4	PXCPC-060DV	60 psid miniature pressure sensor	
0 to 100	0 to 7	PXCPC-100DV	100 psid miniature pressure sensor	
0 to 150	0 to 10	PXCPC-150DV	150 psid miniature pressure sensor	

Ordering Examples: PXCPC-030GV, 30 psig gage pressure range miniature pressure sensor with 90 mV output @ 12 Vdc. PXCPC-015AV, 15 psia absolute pressure range miniature pressure sensor with 90 mV output @ 12 Vdc. PXCPC-001DV, 1 psid differential pressure range miniature pressure sensor with 18 mV output @ 12 Vdc.

High Performance Meter

With High Resolution 6-Digit Display

DP41-S Series

- Compatible with Strain Gage Bridge Sensors or Ratiometric Voltage Sensors
- Adjustable Filtering Up to 13 Hz
- ✓ Displays Up to 999,999 Counts
- ✓ NEMA 4 (IP65) Front Panel
- ✓ Remote Tare, Min, Max, Reset, and Hold Features



Min/Max (Peak/ Valley) Detection

Red LED Display Standard, Green Optional



DP41-S strain gage indicator shown smaller than actual size. Visit omega.com/dp41-s for details.

The high-performance DP41-S strain gage indicators have inputs for strain gage bridge and ratiometric voltage sensors. Built-in excitation is standard. The input range is selected via internal jumpers, and the user can perform scaling to engineering units on the front keypad. With optional RS232 or RS485 communications, the operator can program the display remotely.

0 to 5 Vdc Output 0-2 to 0-30,000 psi-Standard Models 0-150 mbar to 0-400 bar-Metric Models



PRESSI

VOLTAGE OUTPUT PRE TRANSDUCERS

PX02/PXM02 Series



- Internal Shunt Resistor for Easy **System Checks**
- All Stainless Steel Construction
- Available in Gage, Absolute, Sealed Gage, psi, and Metric Ranges
- ✓ Cable, Connector Models or Mini DIN
- ✓ Optional Pressure Ports to Fit Most **Industrial Applications**

OMEGA's PX02/PXM02 are high-accuracy, amplified voltage output, industrial pressure transducers. All stainless steel construction and a hermetically sealed case make the PX02/PXM02 suitable for harsh industrial environments. They are a true high-accuracy industrial device.

SPECIFICATIONS

Excitation: 24 to 32 Vdc

Output: 0 to 5 Vdc ±10% adjustable

Linearity: ±0.15% FSO Hysteresis: ±0.1% FSO Repeatability: ±0.05% FSO Zero Balance: 0 V ±10% adj

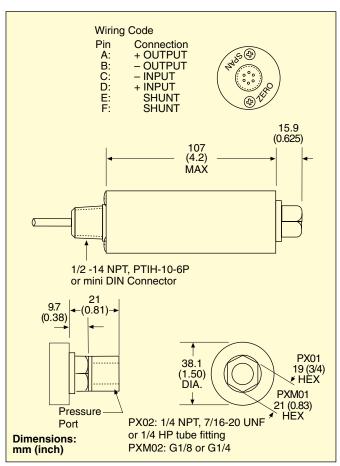
Sensing Element: 4-active-arm bridge, using thick-film strain gages in a hermetically sealed chamber (except gage units) Shunt Calibration Value: Specified on calibration sheet Operating Temp Range: -46 to 121°C (-50 to 250°F) Compensated Temp Range: 16 to 71°C (60 to 160°F) Thermal Effects:

Span: 0.003% of rdg/°F **Zero:** 0.003% of FSO/°F

Proof Pressure: 150% of rated pressure Burst Pressure: 300% of rated pressure Wetted Parts: 17-4 PH stainless steel Pressure Port: See custom configurations **Electrical Connection:** See custom configurations

Mating Connector: (Style 1) PT06F10-6S (sold separately)

Weight: 388 g (13.7 oz)



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ALL STAINLESS STEEL TRANSDUCER



1/4 NPT Pressure Snubbers: PS-4G = Gas **PS-4G** = Lt Oil

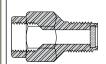
STANDARD CUSTOM CONFIGURATIONS

SERIES	RANGE (psi) [3] 002 005 010 015 020 025 050 075 100 150 200 250 300 500 750 1K	UNITS [4] S,G,A,A,A,A,A,A,A,A,A,A,A,A,A,A,A,A,A,A,	OUTPUT [5] 5T = 0 to 5 Vdc output 5Z = Isolated 0 to 5 Vdc 10T= 0 to 10 Vdc output	OPTIONS [6] OL = Overload stops + additional cost (when available) OX = Cleaned for oxygen use + additional cost plus 2 weeks ()ft = Optional cable length in feet + add cost/ft over 10 feet
PT06F10-6S 6 = mini DIN connector* * no shunt cal	1.5K 2K 3K 3.5K 5K 7.5K	S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A		Mating Connector PT06F10-6S
For additional options including extended compensated temperatures, visit us online.	10K† 20K† 30K†	S,G,A S,G,A S,G,A	† Supplied with ¼ HP tube fitti	ng.

Ordering Examples: PX02C1-100G5T, 100 psi gage pressure transducer with $\frac{1}{4}$ -18 NPT male fitting, PTIH-10-6P, connector, and 0 to 5V output. PT06F10-6S, mating connector (sold separately). PX02K0-1KS5Z, 1000 psi sealed gage pressure transducer with $\frac{7}{16}$ -20 UNF female fitting, 3 m (10') cable and isolated 0 to 5 Vdc output. PX02J1-015A5T, 15 psi absolute pressure transducer with $\frac{7}{16}$ -20 UNF male fitting, PTIH-10-6P, connector and 0 to 5 Vdc output. PT06F10-6S mating connector (sold separately).

To order a custom configuration:

- 1. Select a pressure port
- 2. Select electrical connection
- 3. Select a pressure range
- 4. Select pressure units
- 5. Select output
- 6. Select options



G¹/₄ Pressure Snubbers: PS-4G-MG = Gas**PS-4E-MG** = Lt Oil

PS-4D-MG = Dense Liquid

METRIC CUSTOM CONFIGURATIONS

		II IGOTIATIONO -				
PXM02 SERIES MA = G1/8E MB = G1/8E MC = G1/8E MD = G1/8E	3 Female 3 Male	ELECTRICAL CONNECTION [2]	RANGE (BAR) [3] 0.16 0.4 1.0 1.6 2.5 4.0	UNITS [4] S,G,A S,G,A S,G,A S,G,A S,G,A S,G,A	OUTPUT [5] 5T = 0 to 5 Vdc 5Z = Isolated 0 to 5 Vdc 10T= 0 to 10 Vdc output	OPTIONS [6] OX = Cleaned for oxygen service OL = Overload stops ()m = Optional cable length in meters + add cost/m
	+ add c 1 = PTIH-10 (or equal Mating (sold se PT06F1	connector parately), order 0-6S V connector*	6.0	5,G,A S,G,A S,G,G,A S,G,G,A S,G,A S,G,A S,G,A S,G,A		over 3 m
		including extended tures, visit us onlin				

Ordering Examples: PXM02MB0-010BARS5T. 10 bar sealed gage pressure transducer with G¹/₈B female connection and 3 m (10') cable termination.

PXM02MD1-010BARAV, 10 bar absolute pressure transducer with G1/4B female connection and twist-lock 6 pin connector. PT06F10-6S, mating connector (sold separately).

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To Order				
RANGE		⁷ ∕ ₁₆ -20 UNF MODEL NO.	¼ NPT MODEL NO.	COMPATIBLE METERS†
ABSOLUTE PRESSURE (All Ranges Available		ble in Absolute Pressure)		
0 to 10 psi	0 to 0.69 bar	PX02K1-010A5T	PX02C1-010A5T	DP41-E, DP25B-E
0 to 15 psi	0 to 1.0 bar	PX02K1-015A5T	PX02C1-015A5T	DP41-E, DP25B-E
0 to 20 psi	0 to 1.4 bar	PX02K1-020A5T	PX02C1-020A5T	DP41-E, DP25B-E
0 to 25 psi	0 to 1.72 bar	PX02K1-025A5T	PX02C1-025A5T	DP41-E, DP25B-E
0 to 50 psi	0 to 3.4 bar	PX02K1-050A5T	PX02C1-050A5T	DP41-E, DP25B-E
GAGE PRESSURE (All Ranges Also Availab	ole in Sealed Gage Pressure)		
0 to 2 psi	0 to 0.14 bar	PX02K1-002G5T	PX02C1-002G5T	DP41-E, DP25B-E
0 to 5 psi	0 to 0.34 bar	PX02K1-005G5T	PX02C1-005G5T	DP41-E, DP25B-E
0 to 10 psi	0 to 0.69 bar	PX02K1-010G5T	PX02C1-010G5T	DP41-E, DP25B-E
0 to 15 psi	0 to 1.0 bar	PX02K1-015G5T	PX02C1-015G5T	DP41-E, DP25B-E
0 to 50 psi	0 to 3.4 bar	PX02K1-050G5T	PX02C1-050G5T	DP41-E, DP25B-E
0 to 75 psi	0 to 5.2 bar	PX02K1-075G5T	PX02C1-075G5T	DP41-E, DP25B-E
0 to 100 psi	0 to 6.9 bar	PX02K1-100G5T	PX02C1-100G5T	DP41-E, DP25B-E
0 to 200 psi	0 to 13.8 bar	PX02K1-200G5T	PX02C1-200G5T	DP41-E, DP25B-E
0 to 300 psi	0 to 20.7 bar	PX02K1-300G5T	PX02C1-300G5T	DP41-E, DP25B-E
0 to 500 psi	0 to 34.5 bar	PX02K1-500G5T	PX02C1-500G5T	DP41-E, DP25B-E
0 to 1000 psi	0 to 68.9 bar	PX02K1-1KG5T	PX02C1-1KG5T	DP41-E, DP25B-E
0 to 1500 psi	0 to 103 bar	PX02K1-1.5KG5T	PX02C1-1.5KG5T	DP41-E, DP25B-E
0 to 2000 psi	0 to 138 bar	PX02K1-2KG5T	PX02C1-2KG5T	DP41-E, DP25B-E
0 to 3500 psi	0 to 241 bar	PX02K1-3.5KG5T	PX02C1-3.5KG5T	DP41-E, DP25B-E
0 to 5000 psi	0 to 345 bar	PX02K1-5KG5T	PX02C1-5KG5T	DP41-E, DP25B-E
0 to 7500 psi	0 to 517 bar	PX02K1-7.5KG5T	PX02C1-7.5KG5T	DP41-E, DP25B-E
0 to 10,000 psi**	0 to 689 bar	PX02S1-10KG5T**	PX02S1-10KG5T**	DP41-E, DP25B-E*
0 to 20,000 psi**	0 to 1379 bar	PX02S1-20KG5T**	PX02S1-20KG5T**	DP41-E, DP25B-E*
0 to 30,000 psi**	0 to 2068 bar	PX02S1-30KG5T**	PX02S1-30KG5T**	DP41-E, DP25B-E*

Comes complete with 5-point NIST-traceable calibration.

To order absolute pressure, replace "G" in model number with "A" and add **cost** to price.
To order sealed gage units, replace "G" in model number with "S" (no extra charge).

Ordering Examples: PX02K1-1KG5T, 1000 psi gage transducer with 0 to 5 V output, twist-lock 6 pin connector and 7/16-20 UNF female pressure connection. PT06F10-6S, mating connector (sold separately).

PX02C0-010G5T, 10 psi gage transducer with 0 to 5 V output, 3 m (10') cable and 1/4 NPT male pressure connection.

METRIC MODELS

Models with G ¼ Female Pressure Connection, Cable or Connector and 5 V Output			
RANGE		MODEL NO.	COMPATIBLE METERS†
GAGE PRESSURE			
0 to 0.16 bar	0 to 2.3 psi	PXM02MD0-160BARG5T	DP41-S, DP25B-S
0 to 0.4 bar	0 to 5.8 psi	PXM02MD0-400BARG5T	DP41-S, DP25B-S
0 to 1 bar	0 to 15 psi	PXM02MD0-001BARG5T	DP41-S, DP25B-S
0 to 1.60 bar	0 to 23 psi	PXM02MD0-1.60BARG5T	DP41-S, DP25B-S
0 to 2.50 bar	0 to 58 psi	PXM02MD0-2.50BARG5T	DP41-S, DP25B-S
0 to 4 bar	0 to 87 psi	PXM02MD0-004BARG5T	DP41-S, DP25B-S
0 to 6 bar	0 to 145 psi	PXM02MD0-006BARG5T	DP41-S, DP25B-S
0 to 10 bar	0 to 232 psi	PXM02MD0-010BARG5T	DP41-S, DP25B-S
0 to 16 bar	0 to 363 psi	PXM02MD0-016BARG5T	DP41-S, DP25B-S
0 to 25 bar	0 to 580 psi	PXM02MD0-025BARG5T	DP41-S, DP25B-S
0 to 40 bar	0 to 870 psi	PXM02MD0-040BARG5T	DP41-S, DP25B-S
0 to 60 bar	0 to 1450 psi	PXM02MD0-060BARG5T	DP41-S, DP25B-S
0 to 100 bar	0 to 2321 psi	PXM02MD0-100BARG5T	DP41-S, DP25B-S
0 to 160 bar	0 to 3626 psi	PXM02MD0-160BARG5T	DP41-S, DP25B-S
0 to 250 bar	0 to 5802 psi	PXM02MD0-250BARG5T	DP41-S, DP25B-S
0 to 400 bar	0 to 8702 psi	PXM02MD0-400BARG5T	DP41-S, DP25B-S

Comes complete with 5-point NIST-traceable calibration. † Visit us online for compatible meters. To order absolute pressure models, replace "G" in model number with "A" and add **cost** to price. To order sealed gage models, replace "G" in model number with "S" (no extra charge). To order female thread, see custom configurations below.

Ordering Examples: PXM02MD6-004BARG5T, 4 bar gage transducer with 0 to 5V output, mini DIN connector and G1/4 female pressure connection. Mating connector included. PXM02MD0-001BARA5T, 1 bar absolute transducer with 0 to 5 V output, 3 m (10') cable and $G^{1}/_{4}$ female pressure connection.



† Visit us online for compatible meters.

PXM02MC6-010BARG5T

shown actual size.

^{* 4-}digit meter, counts in increments of 10. ** 1/4HP tube fitting pressure port.

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Transducer/Transmitter **Multimedia Compatibility**

High-Performance Silicon Technology

Metric Model

350 mbar to 20 bar Absolute Pressure 70 mbar to 700 bar Gage Pressure

PXM309 Series



- ✓ 5-Point Traceable Calibration Certificate
- ✓ High Accuracy, ±0.25% FS BSL (Linearity, Hysteresis and Repeatability)
- ✓ 1% Total Error Band on Most Ranges
- ✓ Reverse Polarity and Over **Voltage Protected**
- ✓ -40 to 85°C (-40 to 185°F) Operating Temperature
- ✓ 0 to 10 Vdc or 4 to 20 mA Output
- ✓ Terminations: Cable, mini DIN or M12 Connector
- ✓ G ¼ Male Pressure Fitting
- ✓ IP65 Environmental Rating

OMEGA's PXM309 Series industrial

pressure transducers utilize two

techniques. Low pressure ranges

ranges to 20 bar use a precision

micromachined silicon sensor

protected by a stainless steel

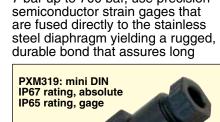
PXM309: 2 m (6.6') cable IP67 rating

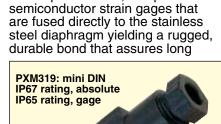
from 70 mb to 3.5 bar, and absolute

diaphragm. A thin film of oil transfers

of our precision manufacturing

the pressure and assures the high accuracy and stability of the sensor. Medium and high gage pressure ranges, from 7 bar up to 700 bar, use precision semiconductor strain gages that are fused directly to the stainless steel diaphragm yielding a rugged,











PXM319-007G10V, shown smaller than actual size.



shown smaller than actual size.

life and high stability. These precision techniques produce an accuracy of 0.25% FS BSL @25°C and a total error band of 1% on most ranges. The PXM309 Series transducers are available in absolute, or gage (relative) pressure and are sealed to an IP65 environmental rating.



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SPECIFICATIONS

Supply Voltage

Reverse polarity and over voltage protected

0 to 10 Vdc Output: 15 to 30 Vdc

at 10 mA

4 to 20 mA: 9 to 30 Vdc

Static Accuracy 350 mB to 700 bar: ±0.25% FS BSL at 25°C (includes linearity, hysteresis and repeatability)

Long Term Stability (1 yr): ±0.25%

Total Error Band*

70 mB ±4.5% gage 140 mB ±3% gage 350 mB ±1.5% gage and absolute 1 to 20 bar ±1% absolute 1 to 700 bar ±1% gage

Note*: Total error band includes all accuracy errors, thermal errors, span and zero tolerances.

Isolation (Body to Any Lead):

1 M Ω at 25 Vdc

Pressure Cycles: 1 x 107 full

scale cycles

Pressure Overload

70 mB to 3.5 bar Gage: 3 x rated pressure or 1.38 bar whichever

is greater

350 mB to 20 bar Absolute: 3 x rated pressure or 1.38 bar whichever

is greater

7 to 700 bar Gage: 2 x rated

pressure

Burst Pressure

70 mB to 3.5 bar Gage: 5 x rated pressure or 1.72 bar whichever

is greater

350 mB to 20 bar Absolute: 5 x rated pressure or 1.72 bar whichever

is greater

7 to 700 bar Gage: 5 x rated pressure Compensated Temperature

70 to 350 mbar Gage/Abs: 0 to 50°C

(32 to 122°F)

1 to 700 bar Gage: -20 to 85°C

(-4 to 185°F)

1 to 20 bar Absolute: -20 to 85°C

(-4 to 185°F)

Operating Temperature: -40 to 85°C

(-40 to 185°F)

Response Time: 1 mS Bandwidth: DC to 1 kHz type Pressure Connection: G 1/4 Male

Wetted Parts

70 mB to 3.5 bar Gage: 316 SS 350 mB to 20 bar Absolute: 316 SS 7 to 700 bar Gage: 17-4PH SS 0 to 35 bar: may contain HNBR

o-ring in wetted pressure port assembly CE Compliant: EC55022, EC55011

Emissions Class A&B IEC: 61000-2,-3,-4,-5,-6,&-9

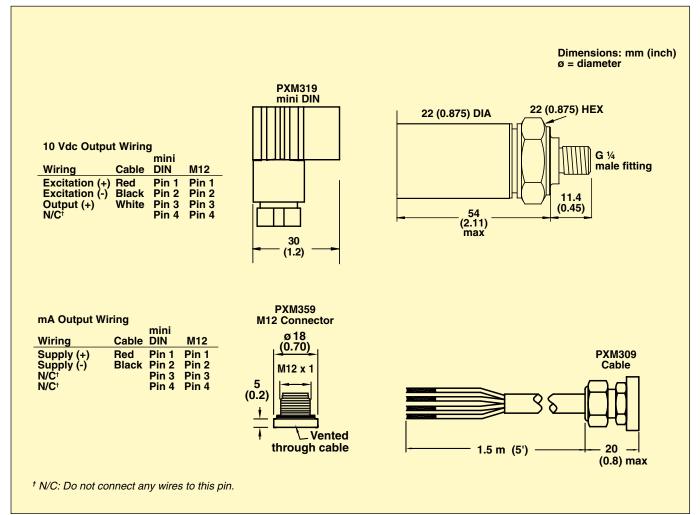
Shock: 50 g 11 mSec half sine shock

Vibration: ± 20 q

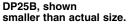
Electrical Connections

PXM309: 1.5 m (5') 2 or 3-conductor cable, mA or 10V outputs, respectively PXM319: mini DIN connector with

mating connector included PXM359: M12 4-pin connector Weight: Typical 150 g (5.3 oz) depending upon configuration









			MENU RESET	
To Order				
Range	Cable Models PXM309 Series	mini Din Models PXM319 Series	M12 Models PXM359 Series	Compatible Meters
Absolute Pressi	ure			
350 mbar	PXM309-0.35A[*]	PXM319-0.35A[*]	PXM359-0.35A[*]	DP25B-E, DP41-B
1 bar	PXM309-001A[*]	PXM319-001A[*]	PXM359-001A[*]	DP25B-E, DP41-B
2 bar	PXM309-002A[*]	PXM319-002A[*]	PXM359-002A[*]	DP25B-E, DP41-B
3.5 bar	PXM309-3.5A[*]	PXM319-3.5A[*]	PXM359-3.5A[*]	DP25B-E, DP41-B
7 bar	PXM309-007A[*]	PXM319-007A[*]	PXM359-007A[*]	DP25B-E, DP41-B
15 bar	PXM309-015A[*]	PXM319-015A[*]	PXM359-015A[*]	DP25B-E, DP41-B
20 bar	PXM309-020A[*]	PXM319-020A[*]	PXM359-020A[*]	DP25B-E, DP41-B
Gage (Relative)	Pressure			
70 mbar	PXM309-0.07G[*]	PXM319-0.07G[*]	PXM359-0.07G[*]	DP25B-E, DP41-B
140 mbar	PXM309-0.14G[*]	PXM319-0.14G[*]	PXM359-0.14G[*]	DP25B-E, DP41-B
350 mbar	PXM309-0.35G[*]	PXM319-0.35G[*]	PXM359-0.35G[*]	DP25B-E, DP41-B
1 bar	PXM309-001G[*]	PXM319-001G[*]	PXM359-001G[*]	DP25B-E, DP41-B
2 bar	PXM309-002G[*]	PXM319-002G[*]	PXM359-002G[*]	DP25B-E, DP41-B
3.5 bar	PXM309-3.5G[*]	PXM319-3.5G[*]	PXM359-3.5G[*]	DP25B-E, DP41-B
7 bar	PXM309-007G[*]	PXM319-007G[*]	PXM359-007G[*]	DP25B-E, DP41-B
10 bar	PXM309-010G[*]	PXM319-010G[*]	PXM359-010G[*]	DP25B-E, DP41-B
15 bar	PXM309-015G[*]	PXM319-015G[*]	PXM359-015G[*]	DP25B-E, DP41-B
20 bar	PXM309-020G[*]	PXM319-020G[*]	PXM359-020G[*]	DP25B-E, DP41-B
35 bar	PXM309-035G[*]	PXM319-035G[*]	PXM359-035G[*]	DP25B-E, DP41-B
70 bar	PXM309-070G[*]	PXM319-070G[*]	PXM359-070G[*]	DP25B-E, DP41-B
140 bar	PXM309-140G[*]	PXM319-140G[*]	PXM359-140G[*]	DP25B-E, DP41-B
200 bar	PXM309-200G[*]	PXM319-200G[*]	PXM359-200G[*]	DP25B-E, DP41-B
350 bar	PXM309-350G[*]	PXM319-350G[*]	PXM359-350G[*]	DP25B-E, DP41-B
500 bar	PXM309-500G[*]	PXM319-500G[*]	PXM359-500G[*]	DP25B-E, DP41-B
700 bar	PXM309-700G[*]	PXM319-700G[*]	PXM359-700G[*]	DP25B-E, DP41-B
Vacuum and Co	mpound Gage Pressure			
0 to -1 bar	PXM309-001V[*]	PXM319-001V[*]	PXM359-001V[*]	DP25B-E, DP41-B
-1 to 0 to +1 bar	PXM309-001CG[*]	PXM319-001CG[*]	PXM359-001CG[*]	DP25B-E, DP41-B
-1 to 2 bar	PXM309-V002G[*]	PXM319-V002G[*]	PXM359-V002G[*]	DP25B-E, DP41-B
-1 to 3.5 bar	PXM309-V3.5G[*]	PXM319-V3.5G[*]	PXM359-V3.5G[*]	DP25B-E, DP41-B
-1 to 7 bar	PXM309-V007G[*]	PXM319-V007G[*]	PXM359-V007G[*]	DP25B-E, DP41-B
-1 to 10 bar	PXM309-V010G[*]	PXM319-V010G[*]	PXM359-V010G[*]	DP25B-E, DP41-B

Comes complete with 5-point traceable calibration certificate

[*] Insert "10V" for 0 to 10 Vdc output or "I" for 4 to 20 mA output

Note: M12 models require vented cable with gage units below 70 bar.

Accessories

Model No.	Description
P002414-1	2 m (6.6') vented cable with mating M12 connector and flying leads for PXM359
P002414-2	5 m (16.4') vented cable with mating M12 connector and flying leads for PXM359
PXMW-4	SEALING WASHER FOR G 1/4, STAINLESS STEEL WITH FKM SEAL (INCLUDED)

Ordering Examples: PXM309-007G10V, cable model, 7 bar range, gage pressure, 0 to 10 Vdc output. PXM319-007AI, mini DIN model, 7 bar range, absolute pressure, 4 to 20 mA output.

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High 0.08% Accuracy

Gage Pressure: 10 inH₂0 to 3500 psi (25 mb to 245 bar)

Sealed Gage: 0 to 100 psi to 0 to 3500 psi (0 to 7 bar to 0 to 245 bar)

Absolute Pressure: 5 to 1000 psi (350 mb to 70 bar) Compound Gage: ±10 inH₂0 to ±15 psi (±25 mbar to ±1 bar)

Vacuum (Negative Gage): 0 to -10 inH₂0 to 0 to -15 psi (0 to -25 mbar to 0 to -1 bar) Barometric Ranges: 0. 16 or 26 inHg to 32 inHg (0. 550 or 880 hPa to 1100 hPa)

Please Note: Not for export, USA and Canada only



PX509/PXM509-IS Series



- ✓ High 0.08% Accuracy with NIST Traceable **Calibration Certificate**
- ✓ 4 to 20 mA Output with FM Intrinsically Safe Rating
- ✓ Solid State Sensor for **Long Term Stability**
- ✓ 316L SS Wetted Parts and Welded Stainless **Steel Construction**
- Shock and Vibration Rated
- Ruggedized with Secondary **Containment System**
- ✓ Demountable Electrical Termination
- ✓ User Accessible Trim Pots on Most Models

APPLICATIONS

- ✓ Process Control
- Hvdraulic and **Pneumatic Systems**
- ✓ Natural Gas Compressors
- Chemical Refineries
- Oil and Gas
- **✓** Pipeline Measurements
- ✓ Hydrogen (316L SS Wetted Parts Standard)
- **✓** Power Generation

PX539-IS Series with DIN connector. Mating connector not included. PX519-IS Series with mini-DIN connector. Mating connector not included.





The PX509 intrinsically safe transducers are rugged all stainless steel transducers specifically designed to meet the requirements for use in hazardous locations for all classes and zones.

Features include welded stainless steel construction, user accessible potentiometers, and a demountable electrical termination end. They are designed for rugged industrial applications, and have high shock and vibration ratings and excellent long term stability.

A precision micromachined silicon sensor is at the core, and provides a very stable reading with exceptional high accuracy of 0.08% and a broad compensated range of -29 to 75°C (-20 to 167°F) on most ranges.

Modular construction allows for fast delivery of most configurations and fittings including agency approved models, plus, customized models also can be delivered quickly to suit your exact needs. Models with ½ NPT conduit fitting (PX509C) do not have a demountable termination and trim pots are an extra cost option.

Intrinsically safe models are available in many ranges and configurations.

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INTRINSICALLY SAFE TRANSMITTERS

AGENCY APPROVALS

TYPE	AGENCY	APPROVAL LISTINGS
Intrinsically Safe (US and Canada)	FM	Hazardous (Classified) Location, Rated Intrinsically Safe, Securite Intrinsique Class I, II, III, Division 1 Gr A, B, C, D, E, F, G Class I, Zone 0 Aex ia IIc (US), Class I, Zone 0 Ex ia IIC (Canada), T4, Ta = -40 to 75°C
Non-Incendive	FM	FM Hazardous (Classified) Location, Rated Non-Incendive Class I Division 2 Groups A, B, C, D (US and Canada) T4, Ta = -40 to 75°C, Conduit electrical connections only

NOTE: Please refer to www.omega.com/approvals/ for downloadable copies of FM Approvals Certificate of Compliance and installation control drawings.

SPECIFICATIONS

Compensated Temperature & **Thermal Effects:**

Compensated Temperature 10 inH₂O to 5 psi: -17 to 75°C 15 to 3500 psi: -29 to 75°C Zero Temperature Shift

10 inH₂O to 5 psi: ±1.0% span **15 to 3500 psi:** ±0.5% span Span Temperature Shift

10 inH₂O to 5 psi: ±1.0% span 15 to 3500 psi: ±0.5% span

Over Pressure 10 inH2O: 10 times 1 psi: 6 times

2.5 to 500 psi: 4 times 750 to 3500: 3 times

Containment

10 inH₂O to 5 psi: To 1000 psi **15 to 750 psi:** To 3000 psi 1000 psi: To 4000 psi 1500 psi: To 6000 psi 2500 psi: To 8000 psi 3500 psi: To 11,000 psi

Absolute/Barometric Pressure Ranges

Over Pressure

5 psia: 6 times span **15 to 1000 psia:** 4 times span 1500 to 5000 psia: 7250 psia

maximum Containment

All Ranges: To 1000 psi

Gauge/Vacuum/Compound **Pressure Ranges**

Over Pressure

10 inH2O: 10 times span 1 psi: 6 times span

2.5 to 1000 psi: 4 times span 1500 to 5000 psi: 7250 psi

maximum

Minimum Resistance Between Transducer Body and Any Wire: 100MΩ @ 50 Vdc

Accuracy (Combined Linearity. Hysteresis and Repeatability):

±0.08% BSL maximum (other accuracies available) For conduit (C and ĆW) zero and span set ±0.5% full scale typical ±1% maximum or set ±1% full scale typical ±2% maximum ranges 2.5 psi and below

Pressure Cycles: 1 million typical Long Term Stability (1-Year): ±0.1% full scale typical

Excitation Voltage: 10 to 28 Vdc,

output 4 to 20 mA

Operating Temperature: -40 to 75°C (-40 to 167°F)

Wetted Material: 316L stainless steel Bandwidth: DC to 1kHz (typical)

Sensor: Oil filled silicon

EMC Compliant: Up to 30 m (98.4')

of cable

EN 61326-1:2006

EN 61326-2-3:2006 Industrial levels Shock: 50 g, 11 msec half sine shock

Vibration: ±20 g

Response Time: <1 msec

RoHS Compliant

Standard Pressure Port:

1/4-18 NPT male

Metric Pressure Port: G1/4B male most popular (other ports available, please contact the Factory)

Weight: 315 g (11 oz) typical depending upon configuration

PX509 also available in industrial models with 5 or 10 Vdc or 4 to 20 mA outputs.

ELECTRICAL TERMINATIONS





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Gage, Sealed Gage and Absolute Pressure Ranges 4 to 20 mA Output

To Order			
RANGE/RE	SOLUTION		
STANDARD	METRIC	STANDARD MODELS	METRIC MODELS
GAGE PF	RESSURE	SEE TABLE ON PREVIOUS PAGE	GE FOR AGENCY APPROVALS
0 to 10 inH ₂ O	0 to 25 mb	PX5[**]-10WGC2IS	PXM5[**]-025HGC2IS
0 to 1 psig	0 to 70 mb	PX5[**]-001GC2IS	PXM5[**]-070HGC2IS
0 to 2.5	0 to 170 mb	PX5[**]-2.5GC2IS	PXM5[**]-170HGC2IS
0 to 5	0 to 350 mb	PX5[**]-005GC2IS	PXM5[**]-350HGC2IS
0 to 15	0 to 1 bar	PX5[**]-015GC2IS	PXM5[**]-001BGC2IS
0 to 30	0 to 2	PX5[**]-030GC2IS	PXM5[**]-002BGC2IS
0 to 50	0 to 3.5	PX5[**]-050GC2IS	PXM5[**]-3.5BGC2IS
0 to 100	0 to 7	PX5[**]-100GC2IS	PXM5[**]-007BGC2IS
0 to 150	0 to 10	PX5[**]-150GC2IS	PXM5[**]-010BGC2IS
0 to 250	0 to 17.5	PX5[**]-250GC2IS	PXM5[**]-17.5BGC2IS
0 to 500	0 to 35	PX5[**]-500GC2IS	PXM5[**]-035BGC2IS
0 to 750	0 to 50	PX5[**]-750GC2IS	PXM5[**]-050BGC2IS
0 to 1000	0 to 70	PX5[**]-1.0KGC2IS	PXM5[**]-070BGC2IS
0 to 1500	0 to 100	PX5[**]-1.5KGC2IS	PXM5[**]-100BGC2IS
0 to 2500	0 to 175	PX5[**]-2.5KGC2IS	PXM5[**]-175BGC2IS
0 to 3500	0 to 245	PX5[**]-3.5KGC2IS	PXM5[**]-245BGC2IS
	D GAGE	SEE TABLE ON PREVIOUS PAGE	
0 to 100 psi	0 to 7 bar	PX5[**]-100SGC2IS	PXM5[**]-7BSGC2IS
0 to 150	0 to 10	PX5[**]-150SGC2IS	PXM5[**]-10BSGC2IS
0 to 250	0 to 17.5	PX5[**]-250SGC2IS	PXM5[**]-17.5BSGC2IS
0 to 500	0 to 35	PX5[**]-500SGC2IS	PXM5[**]-35BSGC2IS
0 to 750	0 to 50	PX5[**]-750SGC2IS	PXM5[**]-50BSGC2IS
0 to 1000	0 to 70	PX5[**]-1.0KSGC2IS	PXM5[**]-70BSGC2IS
0 to 1500	0 to 100	PX5[**]-1.5KSGC2IS	PXM5[**]-100BSGC2IS
0 to 2500	0 to 175	PX5[**]-2.5KSGC2IS	PXM5[**]-175BSGC2IS
0 to 3500	0 to 245	PX5[**]-3.5KSGC2IS	PXM5[**]-245BSGC2IS
	SSURE MODELS	SEE TABLE ON PREVIOUS PAGE	
0 to 5 psi	0 to 350 mb	PX5[**]-005AC2IS	PXM5[**]-350HAC2IS
0 to 15	0 to 1 bar	PX5[**]-015AC2IS	PXM5[**]-001BAC2IS
0 to 30	0 to 2	PX5[**]-030AC2IS	PXM5[**]-002BAC2IS
0 to 50	0 to 3.5	PX5[**]-050AC2IS	PXM5[**]-3.5BAC2IS
0 to 100	0 to 7	PX5[**]-100AC2IS	PXM5[**]-007BAC2IS
0 to 150	0 to 10	PX5[**]-150AC2IS	PXM5[**]-010BAC2IS
0 to 250	0 to 17.5	PX5[**]-250AC2IS	PXM5[**]-17.5BAC2IS
0 to 500	0 to 35	PX5[**]-500AC2IS	PXM5[**]-035BAC2IS
0 to 750	0 to 50	PX5[**]-750AC2IS	PXM5[**]-050BAC2IS
0 to 1000	0 to 70	PX5[**]-1.0KAC2IS	PXM5[**]-070BAC2IS
0 to 1500	0 to 100	PX5[**]-1.5KAC2IS	PXM5[**]-100BAC2IS
0 to 2500	0 to 175	PX5[**]-2.5KAC2IS	PXM5[**]-175BAC2IS
0 to 3500	0 to 245	PX5[**]-3.5KAC2IS	PXM5[**]-245BAC2IS

All models come complete with 5-point NIST traceable calibration.

Any cable or connector must meet the requirements of the environment where it is being installed. The safety engineer should specify the cables and connectors.

[**] SELECT	MODEL NO.	ELECTRICAL TERMINATION	ENVIRONMENT RATING
09	PX509	Cable with flying leads, 2 m (6')	IP65
09C	PX509C	Cable with ½ NPT conduit connector (no trim pots, not demountable)	IP65
09CP	PX509CP	Cable with ½ NPT conduit connector and side accessible trim pots	IP65
09CW	PX509CW	Submersible cable with ½ NPT conduit connector (no trim pots, not demountable) 3 m (10')	IP65
09CWP	PX509CWP	Submersible cable with ½ NPT conduit connector and side accessible trim pots (not demountable) 3 m (10')	IP65
19	PX519	mini-DIN connector (mating connector not included)	IP65
29	PX529	Twist-lock 6 pin connector	IP65
39	PX539	DIN connector (mating connector not included)	IP65
49	PX549	Glass to metal sealed solder pins	IP65
59	PX559	M12 connector, M12 cables sold separately	IP65

Ordering Examples: PX509C-100GC2IS, 2 m (6') cable termination with ½ NPT conduit fitting, 100 psig range, 4 to 20 mA output with

FM intrinsically safe rating.

PX509CP-1.0KGC2IS, 2 m (6') cable termination with ½ NPT conduit fitting with side accessible trim pots, 1000 psig range, 4 to 20 mA output with FM intrinsically safe rating.

PX519-005AC2IS, mini-DIN connector (mating connector not included), 0 to 5 psi absolute range, 4 to 20 mA output with FM intrinsically

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ELECTRICAL TERMINATIONS







Compound Gage, Vacuum and Barometric Pressure Ranges 4 to 20 mA Output

To Order			
RAN	IGE		
STANDARD	METRIC	STANDARD MODELS	METRIC MODELS
COMPOUND GAGE	RANGES	SEE TABLE FOR A	AGENCY APPROVALS
±10 inH ₂ O	±25 mbar	PX5[**]-10WCGBC2IS	PXM5[**]-025HCGBC2IS
±1 psig	±70 mbar	PX5[**]-001CGBC2IS	PXM5[**]-070HCGBC2IS
±2	±170 mbar	PX5[**]-2.5CGBC2IS	PXM5[**]-170HCGBC2IS
±5	±350 mbar	PX5[**]-005CGBC2IS	PXM5[**]-350HCGBC2IS
±15	±1 bar	PX5[**]-015CGBC2IS	PXM5[**]-001BCGBC2IS
VACUUM RANGES (N	NEGATIVE GAGE)	SEE TABLE FOR A	AGENCY APPROVALS
0 to -10 inH₂O	0 to -25 mbar	PX5[**]-10WVC2IS	PXM5[**]-025HVC2IS
0 to -1 psig	0 to -70 mbar	PX5[**]-001VC2IS	PXM5[**]-070HVC2IS
0 to -2.5	0 to -170 mbar	PX5[**]-2.5VC2IS	PXM5[**]-170HVC2IS
0 to -5	0 to -350 mbar	PX5[**]-005VC2IS	PXM5[**]-350HVC2IS
0 to -15	0 to -1 bar	PX5[**]-015VC2IS	PXM5[**]-001BVC2IS
BAROMETRIC RANGES (A	ABSOLUTE PRESSURE)	SEE TABLE FOR A	AGENCY APPROVALS
0 to 32 inHg	0 to 1100 hPa	PX5[**]-32BC2IS	PXM5[**]-1100HBC2IS
16 to 32 inHg	550 to 1100 hPa	PX5[**]-16BC2IS	PXM5[**]-550HBC2IS
26 to 32 inHg	880 to 1100 hPa	PX5[**]-26BC2IS	PXM5[**]-880HBC2IS

All models come complete with 5-point NIST traceable calibration.

Any cable or connector must meet the requirements of the environment where it is being installed. The safety engineer should specify the cables and connectors.

[**] SELECT	MODEL NO.	ELECTRICAL TERMINATION	ENVIRONMENT RATING
09	PX509	Cable with flying leads, 2 m (6')	IP65
09C	PX509C	Cable with ½ NPT conduit connector and specify model PX509C (no trim pots, not demountable)	IP65
09CP	PX509CP	Cable with ½ NPT conduit connector and side accessible trim pots specify model PX509CP	IP65
09CW	PX509CW	Submersible cable with ½ NPT conduit connector (no trim pots, not demountable) 3 m (10')	IP65
09CWP	PX509CWP	Submersible cable with ½ NPT conduit connector and side accessible trim pots (not demountable) 3 m (10')	IP65
19	PX519	Mini-DIN connector (mating connector not IP included)	
29	PX529	Twist-lock 6 pin connector	IP65
39	PX539	DIN connector (mating connector not included)	IP65
49	PX549	Glass to metal sealed solder pins IP65	
59	PX559	M12 connector, M12 cables sold separately	IP65

Custom configurations also available, visit us online for details.

Ordering Examples: PX509C-16BC2IS, 2 m (6') cable termination with ½ NPT conduit fitting,

16 to 32 inHg barometric range, 4 to 20 mA output with FM intrinsically safe rating.

PX529C-2.5VC2IS, twist-lock 6 pin connector, 0 to -2.5 psi vacuum range, 4 to 20 mA output with FM intrinsically safe rating.

PX549-16HBC2IS, glass to metal sealed solder pins, 550 to 1100 hPa barometric range, 4 to 20 mA output with FM intrinsically safe rating.

PX559-001CGBC2IS, M12 connector termination, ±1 psi compound gage range, 12 mA ±8 mA output

(zero =12 mA) with FM intrinsically safe rating.

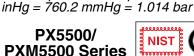
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Pressure Transducer

Imperial and Metric Models

0-5 and 0-10 Vdc Output Models 3 Wire Amplifier 0-15 to 0-10,000 psi-Imperial Models

0-1 to 0-600 bar-Metric Models 1 bar = 14.5 psi $1 \text{ kg/cm}^2 = 14.22 \text{ psi}$ 1 atmosphere = 14.7 psi = 29.93





- ✓ Integral Shunt Calibration
- ✓ Low Noise, 5 Vdc and 10 Vdc Output Models
- ✓ High 0.1% Accuracy
- Solid State Reliability
- Sputtered Strain Gage Design
- ✓ High Shock and Vibration Resistance
- ✓ Low Drift

Applications

- ✓ R&D/Engineering Test Laboratories
- ✓ Functional Test Systems
- Production Testing
- Flight Testing
- ✓ Gas Turbine and Engine **Test Stands**
- Hydraulic Systems
- Custody Transfer Measurements

OMEGA'S PX5500/PXM5500 transducer series provides high performance in demanding industrial and research applications where accuracy, reliability, and price are important. These transducers have a 10-year MTBF rate and are stable to 0.1% of FSO over an 18-month period. This translates into less downtime, fewer test reruns, more time between calibrations, and high confidence in your pressure data. When recalibration is impossible, relying on the high stability of the PX5500/ PXM5500 Series transducers may be the only cost-effective way to obtain pressure data over the long term. OMEGA's thin-film technology makes this premium performance nneeihla Tha etrain nanae and

associated parts are sputterdeposited directly onto the pressure sensing element, eliminating the need for adhesives. The resulting molecular bond between the sensing element and the strain gage ensures virtually no shifting, drifting, or "creep" in the performance of the transducer. The micro-geometry design of the PX5500/PXM5500 sensing element affords a very small, low-mass sensor that reduces effects of mechanical vibration and shock. The PX5500/PXM5500 gives you accuracy, reliability, and stability at competitive prices.

Specifications

Electrical Connection: See Custom Configurations

Pressure Port: See Custom Configurations

Mating Connector (Style 1): PT06F10-6S (sold separately)

Weight: 225 g (8 oz) max

Excitation: 16 to 38 Vdc unregulated Output (FS) 5E/5T Models: 5 Vdc

±0.1 Vdc ±10% adj

Output (FS) 10E Models: 10 Vdc

±0.1 Vdc ±10% adj

CE Compliant: Meets industrial emissions and immunity to EN61326

Zero Balance: 0 Vdc ±0.1 Vdc ±5% adj Input Current: 20 mA max with no load

Output Resistance: $100 \Omega \text{ max}$

Insulation Resistance:

100 M Ω @ 45 Vdc between all pins shorted together and case

Electrostatic Discharge: Protected to 15 kV max

Sensing Element:

4-active-arm bridge using sputterdeposited thin-film elements

Accuracy: Combined linearity, hysteresis and repeatability: ±0.10% FS (BFSL) <70 bar (<1000 psi) ±0.15% FS 70 bar (1000 psi) and above

Natural Frequency:

5 kHz for 1 bar (15 psi), increasing logarithmically to 50 kHz for 5000 psi

Operating Temp Range: -54 to 121°C (-65 to 250°F)

Compensated Temp Range: -18 to 82°C (0 to 180°F)

Thermal Effects (Over the

Compensated Range): Span: ±0.015% FS/°F (0.027%/°C) Zero: ±0.015% FS/°F (0.027%/°C)

PX5500L1-100G5E, shown actual size.

Proof Pressure: 2 times rated pressure or 1000 bar (15,000 psi), whichever is less, will not cause changes in performance beyond the specified tolerance

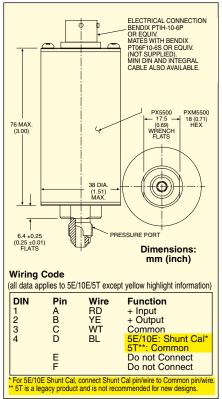
Twist-lock

style.

Burst Pressure: 3 times rated pressure or 1300 bar (20,000 psi), whichever is less, will not cause rupture of the pressure containment cavity

Wetted Parts:

17-4 PH or 15-5 PH stainless steel





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Imperial Custom Configurations

PX5500 PRESSURE ELECTRICAL CONNECTION [1] [2] -	RANGE UNIT	
A = %-27 NPT male B = %-27 NPT female C = %-18 NPT male D = %-18 NPT female L = MS33656-4 M = MS33649-4 0 = 0.6 m (2') cable add cost per/foot	015 psi S,G 025 S,G 050 S,G 100 S,G 250 S,G 500 S,G 1K S,G 1.5K S,G	A,A 10E = 0 to 10 Vdc certificate A,A 5T* = 0 to 5 Vdc + cost A,A *5T is a legacy product and is not recommended for new designs. ()ft = Optional cable length in meters
ver 0.6 m (2') 1 = PTIH-10-6P twist-lock connector (or equal, no charge). Mating connector (sold separately), order PT06F10-6S 6 = mini DIN connector (no charge) Visit us online for additional options including extended compensated temperatures.	2.5K S,G, 3K S,G, 5K S,G, 10K S,G,	To order a custom configuration: 1. Select a pressure port

To Order

Popular Imperial Models with 0 to 5 or 0 to 10 Vdc Output Shown Below (See Custom Configurations Section for All Available Versions/Options)

Pressur	e Range	Model	No. (With Output Termin	nation Style)
Imperial	Metric	0.6 m (2') Cable	PTIH-10-6P Connector	mini DIN Connector
Absolute Press	sure (All Ranges	Available in Absolute	Pressure, See Custom C	onfigurations Section)
0 to 15 psi	0 to 1.0 bar	PX5500[*]0-015A[**]	PX5500[*]1-015A[**]	PX5500[*]6-015A[**]
0 to 25 psi	0 to 1.7 bar	PX5500[*]0-025A[**]	PX5500[*]1-025A[**]	PX5500[*]6-025A[**]
0 to 50 psi	0 to 3.4 bar	PX5500[*]0-050A[**]	PX5500[*]1-050A[**]	PX5500[*]6-050A[**]
0 to 100 psi	0 to 6.9 bar	PX5500[*]0-100A[**]	PX5500[*]1-100A[**]	PX5500[*]6-100A[**]
Gage Pressure	(All Ranges Als	so Available in Sealed G	age Pressure, See Belo	w)
0 to 15 psi	0 to 1.0 bar	PX5500[*]0-015G[**]	PX5500[*]1-015G[**]	PX5500[*]6-015G[**]
0 to 25 psi	0 to 1.7 bar	PX5500[*]0-025G[**]	PX5500[*]1-025G[**]	PX5500[*]6-025G[**]
0 to 50 psi	0 to 3.4 bar	PX5500[*]0-050G[**]	PX5500[*]1-050G[**]	PX5500[*]6-050G[**]
0 to 100 psi	0 to 6.9 bar	PX5500[*]0-100G[**]	PX5500[*]1-100G[**]	PX5500[*]6-100G[**]
0 to 250 psi	0 to 17.2 bar	PX5500[*]0-250G[**]	PX5500[*]1-250G[**]	PX5500[*]6-250G[**]
0 to 500 psi	0 to 34.5 bar	PX5500[*]0-500G[**]	PX5500[*]1-500G[**]	PX5500[*]6-500G[**]
0 to 1000 psi	0 to 68.9 bar	PX5500[*]0-1KG[**]	PX5500[*]1-1KG[**]	PX5500[*]6-1KG[**]
0 to 1500 psi	0 to 103 bar	PX5500[*]0-1.5KG[**]	PX5500[*]1-1.5KG[**]	PX5500[*]6-1.5KG[**]
0 to 2500 psi	0 to 172 bar	PX5500[*]0-2.5KG[**]	PX5500[*]1-2.5KG[**]	PX5500[*]6-2.5KG[**]
0 to 3000 psi	0 to 207 bar	PX5500[*]0-3KG[**]	PX5500[*]1-3KG[**]	PX5500[*]6-3KG[**]
0 to 5000 psi	0 to 345 bar	PX5500[*]0-5KG[**]	PX5500[*]1-5KG[**]	PX5500[*]6-5KG[**]
0 to 10,000 psi	0 to 689 bar	PX5500[*]0-10KG[**]	PX5500[*]1-10KG[**]	PX5500[*]6-10KG[**]

Comes complete with 5-point NIST-traceable calibration. Visit us online for compatible meters.

[*] Pressure Port (see Custom Configurations section and enter A, B, C, D, L, or M).

[**] Output Voltage Range: Enter "5E" for 0 to 5 Vdc output, or "10E" for 0 to 10 Vdc output. To order absolute pressure transducers, change "G" in model number to "A" (no extra charge). To order sealed gage transducers, change "G" in model number to "S" (no extra charge).

Ordering Examples: PX5500L1-025A10E, 25 psi absolute transducer with 0 to 10 Vdc output, PTIH-10-6P electrical connection, and MS33656-4, male pressure port. PT06F10-6S, mating connector (sold separately).

PX5500C6-5KG5E, 5000 psi gage pressure transducer with 0 to 5 Vdc output, mini DIN electrical connection, and ¼-18 NPT male pressure port.



G¹/₄ Pressure Snubbers: PS-4G-MG = Gas PS-4E-MG = Lt Oil PS-4D-MG = Dense

Liquid

High-Performance Thin-Film Pressure

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Metric Custom Configurations

PXM5500 PRESSURE ELECTRICAL SERIES PORT CONNECTION [1] [2] -	RANGE (BAR) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
MA = G%B Male extra charge MB = G%B Female no charge MC = G%B Male extra charge MD = G%B Female no charge 0 = 0.6 m (2') cable (std) add cost per/meter over 0.6 m (2') 1 = PTIH-10-6P twist-lock	001BAR 1.60BAR 004BAR 006BAR 010BAR 016BAR 025BAR 040BAR 060BAR	S,G,A 1 S,G,A 5 S,G,A p S,G,A p	E = 0 to 5 Vdc OE = 0 to 10 Vdc T* = 0 to 5 Vdc 5T is a legacy roduct and is not secommended for ew designs.	CAL11 = 11-point calibration certificate + cost ()ft = Optional cable length in meters
connector (or equal, no charge). Mating connector (sold separately), order PT06F10-6S 6 = mini DIN connector (no charge) Visit us online for additional options including extended compensated temperatures.	100BAR 160BAR 250BAR 400BAR 600BAR	S,G,A S,G,A S,G,A S,G,A S,G,A	 Select a p Select ele Select a p 	tput

	Popular Metric Models with 0 to 5 or 0 to 10 Vdc Output Shown Below (See Custom Configurations Section for All Available Versions/Options)					
Pressur	e Range	Model N	No. (With Output Termination Style)			
Metric	Imperial	0.6 m (2') Cable	PTIH-10-6P Connector	mini DIN Connector		
Gage Press	ure (All Range	es Also Available in Absolu	te and Sealed Gage Pressu	re, See Below)		
0 to 1 bar	0 to 15 psi	PXM5500M[*]0-001BARG[**]	PXM5500M[*]1-001BARG[**]	PXM5500M[*]6-001BARG[**]		
0 to 1.60 bar	0 to 23 psi	PXM5500M[*]0-1.60BARG[**]	PXM5500M[*]1-1.60BARG[**]	PXM5500M[*]6-1.60BARG[**]		
0 to 4 bar	0 to 58 psi	PXM5500M[*]0-004BARG[**]	PXM5500M[*]1-004BARG[**]	PXM5500M[*]6-004BARG[**]		
0 to 6 bar	0 to 87 psi	PXM5500M[*]0-006BARG[**]	PXM5500M[*]1-006BARG[**]	PXM5500M[*]6-006BARG[**]		
0 to 10 bar	0 to 145 psi	PXM5500M[*]0-010BARG[**]	PXM5500M[*]1-010BARG[**]	PXM5500M[*]6-010BARG[**]		
0 to 16 bar	0 to 232 psi	PXM5500M[*]0-016BARG[**]	PXM5500M[*]1-016BARG[**]	PXM5500M[*]6-016BARG[**]		
0 to 25 bar	0 to 363 psi	PXM5500M[*]0-025BARG[**]	PXM5500M[*]1-025BARG[**]	PXM5500M[*]6-025BARG[**]		
0 to 40 bar	0 to 580 psi	PXM5500M[*]0-040BARG[**]	PXM5500M[*]1-040BARG[**]	PXM5500M[*]6-040BARG[**]		
0 to 60 bar	0 to 870 psi	PXM5500M[*]0-060BARG[**]	PXM5500M[*]1-060BARG[**]	PXM5500M[*]6-060BARG[**]		
0 to 100 bar	0 to 1450 psi	PXM5500M[*]0-100BARG[**]	PXM5500M[*]1-100BARG[**]	PXM5500M[*]6-100BARG[**]		
0 to 160 bar	0 to 2321 psi	PXM5500M[*]0-160BARG[**]	PXM5500M[*]1-160BARG[**]	PXM5500M[*]6-160BARG[**]		
0 to 250 bar	0 to 3626 psi	PXM5500M[*]0-250BARG[**]	PXM5500M[*]1-250BARG[**]	PXM5500M[*]6-250BARG[**]		
0 to 400 bar	0 to 5802 psi	PXM5500M[*]0-400BARG[**]	PXM5500M[*]1-400BARG[**]	PXM5500M[*]6-400BARG[**]		
0 to 600 bar	0 to 8702 psi	PXM5500M[*]0-600BARG[**]	PXM5500M[*]1-600BARG[**]	PXM5500M[*]6-600BARG[**]		

Comes complete with 5-point NIST-traceable calibration. Visit us online for compatible meters.

Ordering Examples: PXM5500MC6-060BARS5E, 60 bar sealed gage transducer with 0 to 5 Vdc output, mini DIN electrical connection and G½ male pressure port. Mating connector included.

PXM5500MC0-010BARA10E, 10 bar absolute pressure transducer with 0 to 10 Vdc output, 0.6 m (2') cable connection and G¹/₄ male pressure port.

Accessories

Model No.	Description
PT06F10-6S	Mating connector for PX5500/PXM5500 Series units with PTIH-10-6P twist-lock connector

^[*] Pressure Port (see Custom Configurations section and enter MA, MB, MC, or MD).

^[**] Output Voltage Range: Enter "5E" for 0 to 5 Vdc output, or "10E" for 0 to 10 Vdc output.

To order absolute pressure models, replace "G" in model number with "A" (no extra charge).

To order sealed gage models, replace "G" in model number with "S" (no extra charge).

Omega Link Pressure Monitoring and Control Smart Probe

- Low-cost smart pressure sensor
- All stainless-steel body
- No excitation required
- Battery powered long-range wireless capable with IF-006
- 2x digital I/O (monitor input or control output)
- 10,000+ sample data/event logging
- Integrated alarm and control
- Secure authentication and password protection



Omega's Omega Link Pressure Monitoring Smart Probes measure gas, liquid, and vapor pressure for a wide range of applications. Featuring all stainless-steel pressure sensor construction and available in 1, 50, 100, and 250 psi configurations. No excitation is required as power is provided by Omega Link modular wireless or wired interfaces via a rugged M12 connector.

Users may apply a calibration correction to the measured pressure using either 1 single offset or a calculated 2-point correction for improved accuracy across the entire measurement range.

Temperature data is also available for monitoring the internal temperature of the pressure sensor.

Smart Core Enabled

Smart Core is integral to all Omega Link Smart Sensing Devices. In addition to allowing for modular integration to the Omega Link Ecosystem using any Omega Link Smart Interface, this powerful suite of advanced features enable plug-and-play connectivity, alarm and notifications, data logging, SYNC configuration, and storage of 10,000 data points and events.

Intuitive Configuration

Configure your Omega Link Smart Probe using our free SYNC configuration software. Configurable features include selective data extraction, measurement and device traceability, local alarms, and adaptive transmission rates.

Edge Control and Built in I/O

The Omega Link SP-006 features 2 discrete I/O pins. These can be used for a myriad of applications including driving relays, physical alarms, or sensing dry contacts like door switches. The SP-006

can also be utilized as an edge controller, with autonomous independent decision-making capabilities to generate local alarms or provide control outputs based on sensor inputs.

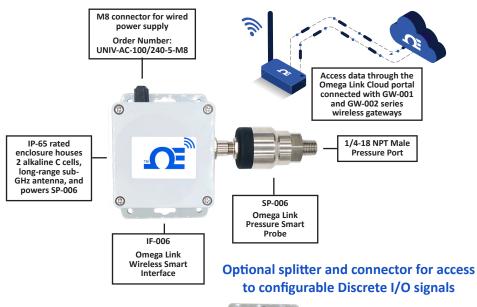


Long-Range Wireless Solution*

Pairing the SP-006 with the IF-006 Series interface produces a self-contained, longrange, wireless solution. This setup can also be externally powered by adding the UNIV-AC100/240-M8 power adaptor.

*Note: IF-006 must be paired with an Omega Link wireless gateway

Wireless Configuration for Smart Pressure Probe



Modularity

Customize your Omega Link Ecosystem by taking advantage of discrete I/O features accessible through the modular addition of an M12.8-T-SPLIT and M12.8-S-M-FM terminal.



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Specifications

PRESSURE

Range: 1, 50, 100, 250 psi Accuracy: ±0.5% full-scale

Resolution: 0.1

Absolute Maximum Pressure: 1.5 times full-scale for each range Caution: Do not exceed 500 psi

INTERNAL SENSOR TEMPERATURE

Range: -10 to 80°C Accuracy: ±1.5°C Resolution: 0.1°C

INPUT POWER

Voltage: 2.8 V DC - 3.3 V DC

DIO DIGITAL INPUTS

 $V_{inHighThreshold} = 2.2 V_{MAX}$ $V_{inLow\ Threshold} = 0.3\ V_{MIN}$ V_{inMAX} = 30 V DC

DIO DIGITAL OUTPUTS

2x Open Drain 200 mA max $V_{MAX} = 30 \text{ V DC}$

ENVIRONMENTAL

Storage Temperature: -40 to 85°C less than 95% RH, non-condensing

Environmental Rating: IP50

GENERAL

Configuration: Configurable with a Omega Link Smart Interface (such as the IF-001 USB Adaptor and SYNC configuration software

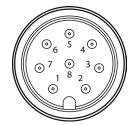
Smart Interface Connectivity:

USB (IF-001), Modbus (IF-002),

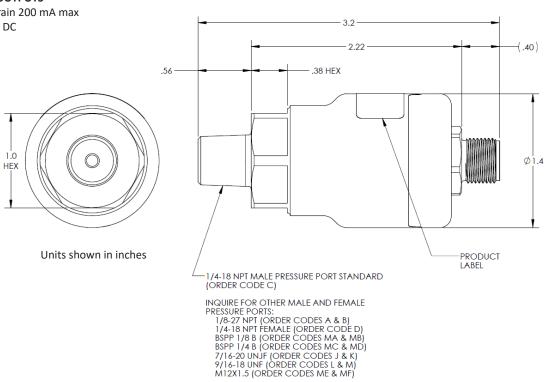
Wireless (IF-006)

Software: Compatible with Omega **Enterprise Gateway and SYNC** configuration software

M12 8-Pin Male Connector



Pin	Name	Function
Pin 1	DIO 0	Discrete I/O Signal 0
Pin 2	INTR	Interrupt Signal
Pin 3	SCL	I2C Clock Signal
Pin 4	SDA	I2C Data Signal
Pin 5	Shield	Shield Ground
Pin 6	DIO 1	Discrete I/O Signal 1
Pin 7	GND	Power Ground
Pin 8	3.3VDD	Power Supply



Omega Link SP-006 Ordering Guide

When ordering an Omega Link SP-006, specify your preferred configuration of Pressure Range and Pressure Type by using the table below:

Model Number	Description
SP-006-1-C-001G	Omega Link pressure monitoring and control smart probe with discrete I/O - 1 psi 6.89 kPa Gauge
SP-006-1-C-050G	Omega Link pressure monitoring and control smart probe with discrete I/O - 50 psi 345 kPa Gauge
SP-006-1-C-050A	Omega Link pressure monitoring and control smart probe with discrete I/O - 50 psi 345 kPa Absolute
SP-006-1-C-100G	Omega Link pressure monitoring and control smart probe with discrete I/O - 100 psi 689 kPa Gauge
SP-006-1-C-250G	Omega Link pressure monitoring and control smart probe with discrete I/O - 250 psi 1724 kPa Gauge

Omega Link Smart Interface

Omega Link Smart Sensing devices require an Omega Link Smart Interface to operate and connect to your Omega Link Ecosystem. There are both wired and wireless options.

Model Number	Description
IF-001	Wired USB Smart Interface
IF-002	Wired RS485/Modbus Smart Interface
IF-006-1-NA	Wireless Sub GHz Wireless Interface -915 MHz
IF-006-1-EU	Wireless Sub GHz Wireless Interface -868 MHz

Omega Link Gateways

An Omega Link Gateway is required to connect your Smart Probe to the Omega Link Cloud or Omega Enterprise Gateway.

Model Number	Description
GW-001-0	Wired IIoT Gateway Standard, Ethernet connectivity, Modbus RTU RS232/RS485 and Modbus TCP
GW-001-2-NA	Wireless IIoT Gateway Standard, Ethernet connectivity, connects up to 100 Omega Link Smart Sensors- 915 MHz
GW-001-2-EU	Wireless IIoT Gateway Standard, Ethernet connectivity, connects up to 100 Omega Link Smart Sensors- 868 MHz
GW-001-3-NA	Wireless IIoT Gateway Pro, Ethernet connectivity, power over Ethernet, connects up to 100 Omega Link Smart Sensors, Modbus RTU RS232/RS485 and Modbus TCP, 2x USB ports- 915 MHz
GW-001-3-EU	Wireless IIoT Gateway Pro, Ethernet connectivity, power over Ethernet, connects up to 100 Omega Link Smart Sensors, Modbus RTU RS232/RS485 and Modbus TCP, 2x USB ports- 868 MHz
GW-002-1-LTE	Wireless LTE IIoT Gateway Pro connects up to 40 Omega Link Smart Sensors, Modbus RTU RS232/RS485 and Modbus TCP, 1x RJ45 port, 1x USB port - 915 MHz

Accessories

Model Number	Description
M12.8-T-SPLIT	Smart Probe M12-8 pin shielded T-Splitter - enables access to I/O pins
M12.8-S-M-FM	M12-8 pin Straight Plug Field install connector with screw terminals
DM12CAB-8-1-RA	1m (3.3') cable dual M12-8 connector, right angle terminator
DM12CAB-8-3-RA	3m (9.8') cable dual M12-8 connector, right angle terminator
DM12CAB-8-5-RA	5m (16.4') cable dual M12-8 connector, right angle terminator
DM12CAB-8-1	1m (3.3') cable dual M12-8 straight connector
DM12CAB-8-3	3m (9.8') cable dual M12-8 straight connector
DM12CAB-8-5	5m (16.4') cable dual M12-8 straight connector

Your Data at a Glance with the Omega Link Cloud

The Omega Link Cloud consolidates and brings your data to you when you need it, wherever you are. The intuitive cloud interface allows you to monitor and store your data, set alarms and alerts, and provides insights on device activity. Visit the OMEGA website for more details.

