Pressure/Temperature Data Loggers

OM-PR Series

1 YEAR WARRANTY | NIST | CE

Optional

- ✔ **Temperature Range: -20 to 85°C (-4 to 185°F)**
- ✔ **Pressure Ranges: 35, 150, 350, 550, 2000, 5800 psia**
- ✔ **Vacuum Ranges: 760 and 380 Torr**
- ✔ **150% Over Range Protection**
- ✔ **Programmable Start/Stop Time and Sample Rates**
- ✔ **Up to 64,000 Samples Per Record**
- ✔ **Alarm Set Points**
- ✔ **Rugged IP67 Package**
- ✔ **Five Year Battery Life**
- ✔ **High Accuracy and Repeatability**

OM-PR150 with cover removed shown larger than actual size.

Windows software (included) turns your PC into a real time data acquisition system.

The OM-PR Series pressure/temperature data loggers are battery powered stand alone water tight compact data loggers that record up to 64,000 samples of pressure and/or temperature data. These data loggers can be configured to record pressure and temperature or a parameter alone to maximize data storage space.

The unit is easily configured using the included Windows® software. Simply connect a standard USB cable to the logger and an open USB port on your PC and the Windows software automatically identifies the data logger. Configure the unit to start and stop recording at a predetermined time and date or only when an alarm condition is sensed. The sample storage rate can be set from 1 sample every 2 seconds up to 1 sample every 24 hours. The on board data storage is non-volatile so data will not be lost in the event of a depleted battery.

The OM-PR Series pressure/temperature data loggers are available in several pressure (0 to 35, 0 to 150, 0 to 350, 0 to 550, 0 to 2000, 0 to 5800 psia) and vacuum (760 and 380 Torr) ranges. The data logger is packaged in a rugged submersible 316L stainless steel housing and has a standard ¼ NPT fitting. The replaceable internal lithium battery has up to a 5 year life.
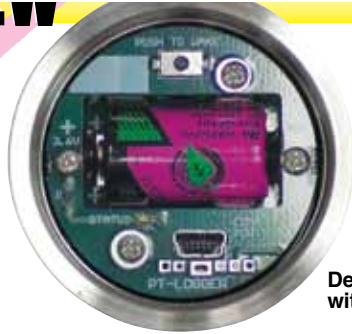
The Windows software is a powerful data acquisition package and is included with every OM-PR Series data logger. It allows for easy setup, retrieval, interpretation and export of the recorded data. Simply connect your data logger to an open USB port and begin communicating immediately.

Choose absolute or gauge readings, as well as your pressure scale from a list that includes kPA, MPA, Bar, milliBar, mmHG, Atm, PSI, pascal, inH_2O and torr. Record the average, instantaneous, maximum, or minimum pressure during your sample interval. Point and click to select your sample interval, alarm set points, engineering units and recording triggers.

View a numerical data table or graphical representation of data readings relative to time. Use the graph tools such as zoom, cursor, min and max to examine and analyze the record. The Windows software turns your PC into a real time data acquisition system by allowing you to stream graphical or tabular data directly to your PC. Stored data can be exported into an Excel spreadsheet.

OM-PR150
with cover on.

Detail of OM-PR150 with cover removed.

GENERAL
Record:

Sample Rate: User configured
1 every 2 seconds to 1 every 24 hours

Number of Samples: 32,000 or 64,000
(depends on setup)

Record Trigger: Two independent triggers

Multiple Trigger Modes: Instantaneous, button control, on alarm, time and date (start and stop), day of week

Record Mode: Fill to end of memory or cyclic, number of samples and time duration

Alarms: 2 user programmable alarms, high or low

Communication: Direct USB connection

Software: Windows 2000/XP/Vista/7 and 8
(32-bit and 64-bit)

Battery Type: 1/2AA, 3.6V, 1.2Ah lithium battery (included)

Battery Life: Up to 5 years typical @ 1 minute sample rate

Enclosure:

Material: 316L stainless steel

Dimensions (Excludes Port Thread): 5.6 H x 5 cm dia (2.19 x 1.95")

Weight: 0.9 kg (2.0 lb)

Specifications
PRESSURE
Pressure Ranges: 0 to 35, 0 to 150, 0 to 350, 0 to 550, 0 to 2000, 0 to 5800 psia

Vacuum Ranges: 760 Torr, 380 Torr

Accuracy: ±1%

Resolution: 0.01 psia

Repeatability: ±0.05%

Overpressure Rating: 1.5 times maximum

Port Connection: ¼ NPT male

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

Accuracy: ±1°C, 0 to 50°C (32 to 122°F); ±2°C, -20 to 85°C (-4 to 185°F)

Resolution: 0.1°C (0.1°F)

To Order

Model No.	Description
OM-PR35	Pressure/temperature data logger, 35 psia range
OM-PR35-NIST	Pressure/temperature data logger, 35 psia range with NIST calibration certificate
OM-PR150	Pressure/temperature data logger, 150 psia range
OM-PR150-NIST	Pressure/temperature data logger, 150 psia range with NIST calibration certificate
OM-PR350	Pressure/temperature data logger, 350 psia range
OM-PR350-NIST	Pressure/temperature data logger, 350 psia range with NIST calibration certificate
OM-PR550	Pressure/temperature data logger, 550 psia range
OM-PR550-NIST	Pressure/temperature data logger, 550 psia range with NIST calibration certificate
OM-PR2000	Pressure/temperature data logger, 2000 psia range
OM-PR2000-NIST	Pressure/temperature data logger, 2000 psia range with NIST calibration certificate
OM-PR5800	Pressure/temperature data logger, 5800 psia range
OM-PR5800-NIST	Pressure/temperature data logger, 5800 psia range with NIST calibration certificate
OM-PR380V	Pressure/temperature data logger, 380 Torr vacuum range
OM-PR380V-NIST	Pressure/temperature data logger, 380 Torr vacuum range with NIST calibration certificate
OM-PR760V	Pressure/temperature data logger, 760 Torr vacuum range
OM-PR760V-NIST	Pressure/temperature data logger, 760 Torr vacuum range with NIST calibration certificate
OM-PR-BATT	Replacement 1/2AA, 3.6V lithium battery
OM-PR-ADAPTOR	Garden hose adaptor (brass coupling)
OM-PR-SEAL	Replacement O-ring seal (pack of 3)
OM-PR-COVER	Locking anti-theft cover
OM-PR-USB-CABLE	Replacement 0.9 m (3') USB cable

Comes complete with operator's manual and Windows software on CD, 0.9 m (3') USB cable and 3.6V lithium battery.

Ordering Example: OM-PR150-NIST, *pressure/temperature data logger, 150 psia range with NIST calibration certificate and* **OCW-1,** *OMEGACARE ᴿᴹ extends standard 1-year warranty to a total of 2 years.*