High Temperature Data Logger
Part of the NOMAD® Family

OM-CP-HITEMP140

5 YEAR WARRANTY NIST CE
Optional

- **Operating Temperature Range: -40 to 140°C (-40 to 284°F)**
- **Optional Thermal Shield for Operation up to 250°C (482°F)**
- **Submersible IP68**
- **Programmable Start/StopTime**
- **User Calibration Through Software**
- **Real-Time Operation**
- **Autoclave Verification**
- **Pharmaceutical**
- **Implement HACCP Programs**
- **Food Preparation and Processing**

OM-CP-HITEMP140-TSK, data logger with thermal shield, shown smaller than actual size.

OM-CP-HITEMP140, shown in OM-CP-IFC400 docking station, shown smaller than actual size.

The OM-CP-HITEMP140 is a rugged, high precision, temperature data logger that is built for use in harsh environments. This stainless steel device is submersible, can withstand temperatures up to 140°C (284°F) and has an accuracy of ±0.1°C (0.18°F) over the entire operating range.

The OM-CP-HITEMP140 can store up to 32,700 readings, and features a 2" rigid external probe capable of measuring extended temperatures, up to 260°C (500°F). The device records date and time stamped readings, and has non-volatile solid state memory that will retain data even if the battery becomes discharged.

Using the OM-CP-HITEMP140 software, starting, stopping and downloading the OM-CP-IFC400 is simple and easy. Graphical, tabular and summary data is provided for analysis and data can be viewed in °C, °F, K or °R. The data can also be automatically exported to Excel® for further calculations.

The OM-CP-IFC406 multiplexer data logger interface allows for multiple devices to be connected into one interface. Each OM-CP-IFC406 allows for 6 data loggers to be connected. Up to 3 OM-CP-IFC406 units may be daisy-chained together to communicate with a total of 18 devices through 1 USB port. To connect multiple OM-CP-IFC406 interfaces together, simply join the units side by side, making sure the spring pin contacts are connected and magnetically joined.

The OM-CP-HITEMP140-TSK is a kit that includes a OM-CP-HITEMP140 data logger housed in a thermal shield. The combined features of the ±0.1°C accuracy of the OM-CP-HITEMP140 and the properties of the durable thermal shield allow the device to be used for a wide range of validation applications.

OM-CP-IFC406 multiplexer data logger interface, shown smaller than actual size.

When using software, the data logger is fast and easy to setup. Remove the thermal shield and place the OM-CP-HITEMP140 into the OM-CP-IFC400 docking station (sold separately). Using the software, an immediate or delay start can be chosen, as well as the reading rate. Select Start to program the settings and start the data logger. Place the thermal shield around the OM-CP-HITEMP140 and screw it back together. The device is ready to be deployed.

The OM-CP-HITEMP140-TSK can be completely submerged and is built for applications that require extreme temperature monitoring.

The OM-CP-MULTIMOUNT-Z is a versatile mount or stand for use with the OM-CP-HITEMP140 series of data loggers. It can be used to stabilize a logger inside an autoclave, or screwed to a flat surface to create an anchored base. The OM-CP-MULTIMOUNT-Z is made of stainless steel and is able to withstand temperatures up to 150°C (302°F) making it ideal for use in autoclave sterilization processes.

Specifications

OM-CP-HITEMP140-TSK
(Thermal Shield)
Operating Environment: -200 to 250ºC (-328 to 482ºF) (time limited) 0 to 100% RHU
Enclosure Material: PTFE
Dimensions: 110 x 51 mm dia. (4.3 x 2.0")
Weight: 274 g (9.7 oz) (not including data logger)

OM-CP-HITEMP140
(Without Thermal Shield)
Temperature Sensor: 100Ω Platinum RTD
Temperature Range (Body): -40 to 140ºC (-40 to 284ºF)
Temperature Measurement Range (Probe): -200 to 260ºC (-328 to 500ºF)
Temperature Resolution: 0.01ºC (0.02ºF)
Calibrated Accuracy: ±0.1ºC (±0.18ºF) [20 to 140ºC (68 to 284ºF)]
Start Modes:
- Software programmable immediate start
- Delay start up to eighteen months in advance

Stop Modes:
- Manual through Software
- Time (specific date and time)

Real Time Recording: May be used with PC to monitor and record data in real time
Memory: 32,700 readings
Reading Rate: One second up to once every 24 hours
Battery Type: 3.6V high-temperature lithium battery (included); user-replaceable
Battery Life: 1 year typical [1 minute reading rate at 25ºC (77ºF)]
Calibration: Digital calibration through software
Calibration Date: Automatically recorded within device
Data Format: Date and time stamped ºC, ºF, K, ºR
Time Accuracy: ±1 minute/month at 20 to 30ºC (68 to 86ºF) (RS232 cable not in use)
Computer Interface:
OM-CP-IFC400 USB docking station required
125,000 baud
Software: Windows XP SP3/Vista/7 and 8 (32- and 64-bit)
Operating Environment:
-40 to 140ºC (-40 to 284ºF), 0 to 100% RH
Dimensions
Body: 48 H x 25 mm D (1.9 x 0.97")
Probe: 51 L x 4.8 mm dia (2.0 x 0.188"); See additional probe lengths in the ordering chart on the next page
Weight: 120 g (4.2 oz)
Material: 316 stainless steel

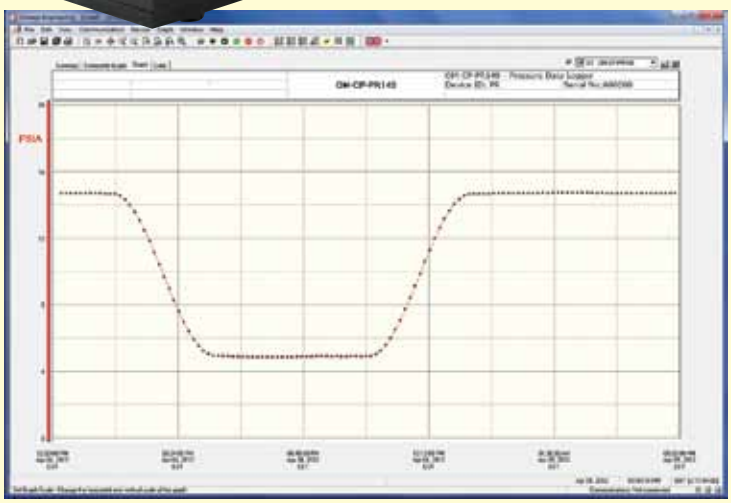
OM-CP-IFC406 Multiplexer
Operating Environment: 10 to 35°C (50 to 95°F); 0 to 95% RH non-condensing
Baud Rate: 125,000 baud
Connection Type: USB to PC
Weight: 750 g (1.65 lb)
Material: 6061 Aluminum (PTFE impregnated hard anodize coating), ABS plastic
Enclosure Dimensions: 24.13 L x 4.95 W x 4.45 cm H (9.5 x 1.95 x 1.75")

OM-CP-HITEMP140-TSK
(Data Logger with Thermal Shield)

Ambient Temperature	Time in Air to Maximum Internal Temp (140°C / 284°F)	Time in Liquid to Maximum Internal Temp (140°C / 284°F)
-200°C (-328°F)	14 min	N/A
-180°C (-292°F)	15 min	N/A
-160°C (-256°F)	16 min	N/A
-140°C (-220°F)	18 min	N/A
-120°C (-184°F)	21 min	N/A
-100°C (-148°F)	24 min	N/A
-80°C (-112°F)	30 min	N/A
-60°C (-76°F)	42 min	25 min
-40 to 140°C (-40 to 284°F)	Indefinitely	Indefinitely
150°C (302°F)	66 min	40 min
160°C (320°F)	57 min	34 min
170°C (338°F)	48 min	29 min
180°C (356°F)	42 min	26 min
190°C (374°F)	38 min	23 min
200°C (392°F)	34 min	21 min
210°C (410°F)	32 min	19 min
220°C (428°F)	30 min	18 min
230°C (446°F)	27 min	17 min
240°C (464°F)	26 min	16 min
250°C (482°F)	24 min	15 min

OM-CP-MULTIMOUNT-Z bracket, sold separately.

OM-CP-IFC406 multiplexer data logger interface, shown smaller than actual size.



OM-CP-IFC400, Windows® software displays data in graphical or tabular format.

To Order

Model No.	Description
OM-CP-HITEMP140	High temperature data logger with 50 mm (2") probe
OM-CP-HITEMP140-CERT	High temperature data logger with 50 mm (2") probe and NIST certificate
OM-CP-HITEMP140-TSK	OM-CP-HITEMP140 data logger with thermal shield
OM-CP-HITEMP140-TSK-CERT	OM-CP-HITEMP140 data logger with thermal shield and NIST certificate
OM-CP-HITEMP140-1	High temperature data logger with 25 mm (1") probe
OM-CP-HITEMP140-1-CERT	High temperature data logger with 25 mm (1") probe with NIST certificate
OM-CP-HITEMP140-5.25	High temperature data logger with 131 mm (5.25") probe
OM-CP-HITEMP140-5.25-CERT	High temperature data logger with 131 mm (5.25") probe and NIST certificate
OM-CP-HITEMP140-5.25-TSK	High temperature data logger with 131 mm (5.25") probe and thermal shield
OM-CP-HITEMP140-5.25-TSK-CERT	High temperature data logger with 131 mm (5.25") probe, thermal shield and NIST certificate
OM-CP-HITEMP140-7	High temperature data logger with 175 mm (7") probe
OM-CP-HITEMP140-7-CERT	High temperature data logger with 175 mm (7") probe and NIST certificate
OM-CP-HITEMP140-7-TSK	High temperature data logger with 175 mm (7") probe and thermal shield
OM-CP-HITEMP140-7-TSK-CERT	High temperature data logger with 175 mm (7") probe, thermal shield and NIST certificate
OM-CP-IFC406	Multiplexer data logger interface (accepts up to 6 data loggers) with USB cable, software and manual
OM-CP-IFC400	Docking station (for single data logger) with USB cable, software and manual
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-BAT110	Replacement 3.6V high-temperature lithium battery
OM-CP-MULTIMOUNT-Z	Mount/stand for OM-CP-HITEMP140 data loggers
OM-CP-CF100	Canning fitting for OM-CP-HITEMP140 data loggers
OM-CP-CFK100	Canning fitting with hole punch kit for OM-CP-HITEMP140 data loggers

Comes complete with 3.6V lithium battery. Operator's manual and USB interface cable are included with the OM-CP-IFC400 software/cable package and OM-CP-IFC406 multiplexer. OM-CP-IFC400 required for data logger operation. Both models sold separately.

***Ordering Example: OM-CP-HITEMP140-CERT** high temperature data logger with NIST certificate.*

High Temperature Data Logger With Flexible Probe

OM-CP-HITEMP140-FP

5 YEAR WARRANTY | NIST | CE | RoHS

Optional

- **PFA Coated Flexible Probe Available in 91.4 cm (36") or 183 cm (72") Lengths**
- **Operating Temperature Range: -40 to 140°C (-40 to 284°F)**
- **Optional Vented or Flush Thermal Shield for Operation up to 250°C (482°F)**
- **Probe Measures from -60 to 260°C (-76 to 500°F)**
- **±0.1°C (±0.18°F) Accuracy**
- **Submersible (IP68)**
- **Trigger Settings**
- **Programmable Start and Stop Time**
- **4 Hz Reading Rate**

The OM-CP-HITEMP140-FP is a durable, user friendly high temperature data logger featuring a long, flexible RTD probe with a narrow diameter, making it ideal for use in steam sterilization and lyophilization processes. Commonly used for mapping, validation and monitoring of high temperature surfaces and environments, this stainless steel data logger is available in two models, the OM-CP-HITEMP140-FP-36 and the OM-CP-HITEMP140-FP-72, which feature either a 91.4 cm (36") or 183 cm (72") flexible probe length. The flexible probe is coated with PFA insulation and can withstand temperatures up to 260°C (500°F) with an accuracy of ±0.1°C (±0.18°F). The OM-CP-HITEMP140-FP is also available with an optional thermal shield enclosure to extend the operating range of the data logger to -200 to 250°C (-328 to 482°F). The OM-CP-HITEMP140-FP-TSK (Thermal Shield Kit) comes with either a vented or flush top enclosure to accommodate a multitude of applications.

The OM-CP-HITEMP140-FP probe design is narrow and lightweight making it ideal for placement within small vials, tubing, test tube and other small diameter or delicate applications. Because of the flexible probe, the risks of breakage (both vial and probe) generally associated with stainless steel probe data loggers are diminished and the location and placement of the probe is easy to manipulate. The device records and stores up to 32,700 time stamped readings and is equipped with non-volatile solid state memory which retains data even if the battery becomes discharged.

The OM-CP-MULTIMOUNT-Z is a versatile mount or stand for use with the OM-CP-HITEMP140 series of data loggers. It can be used to stabilize a logger inside an autoclave, or screwed to a flat surface to create an anchored base. Made of 316 stainless steel, the OM-CP-MULTIMOUNT-Z is able to withstand temperatures up to 150°C (302°F) making it ideal for use in autoclave sterilization processes.

OM-CP-HITEMP140-FP shown larger than actual size.

The OM-CP-HITEMP140-FP utilizes the latest software. Data can be viewed in graphical or tabular formats and summary and statistics views are available for further analysis. The software features export to Excel®, data annotation, digital calibration and more.

Specifications

OM-CP-HITEMP140-FP (DATA LOGGER WITHOUT THERMAL SHIELD)

TEMPERATURE

Temperature Sensor: Flexible100 Ω platinum RTD
Probe Measurement Range: -60 to 260°C (-76 to 500°F)
Temperature Resolution: 0.01°C (0.02°F)
Calibrated Accuracy: ±0.1°C (±0.18°F)

GENERAL

Data Logger Response Time (Hours: Minutes: Seconds: Fractions of a Second):
In Air: t60 - 0:00:30:00 (30 sec to reach 60% of step change)
t90 - 00:00:70:00 (70 sec to reach 90% of step change)
In Water: t60 - 00:00:03:50 (3.5 sec to reach 60% of step change)
t90 - 00:00:06:50 (6.5 sec to reach 90% of step change)
Reading Rate: 4 readings per second up to 1 reading every 24 hours
Memory: 32,767 readings
Start Modes:
- Software programmable immediate start
- Delay start up to 18 months in advance

Stop Modes: Manual or Timed (specific date and time)

Trigger Settings: High and low limits may be set. Once data meets or exceed sets Bi-level start and stop triggers can also be programmed. Users can specify the number of readings to take after the device triggers.
Readings in Trigger Settings Mode: 10,922 readings
Real Time Recording: May be used with PC to monitor and record data in real time
Password Protection: An optional password may be programmed into the device to restrict access to configuration options. Data may be read without the password.
Memory Wrap Around: Yes
Battery Type: 3.6V high-temperature lithium battery included; user replaceable
Battery Life: 1 year typical [1 minute reading rate at 25ºC (77ºF)]
Calibration: Digital calibration through software
Calibration Date: Automatically recorded within device
Data Format: Date and time stamped °C, °F, °R, K
Time Accuracy: ±1 minute/month at 25ºC (77°F)
Extended Operation: ±20 minutes/month at 140°C (284°F)

Computer Interface: OM-CP-IFC400 USB docking station or OM-CP-IFC406 multiplexer interface required; 125,000 baud
Software: Windows XP SP3/Vista/7 and 8 (32- and 64-bit)
Operating Environment: -40 to 140ºC (-40 to 284ºF), 0 to 100% RH
IP Rating: IP68
Dimensions (Body): 75 H x 24.6 mm D (2.95 x 0.97")
Dimensions (Probe):
OM-CP-HITEMP140-FP-36: 91.4 cm L x 2.5 mm dia (36 x 0.1")
OM-CP-HITEMP140-FP-72: 183 cm L x 2.5 mm dia (72 x 0.1")
Weight: 85 g (3 oz)
Materials:
Body: 316 SS
Probe: PFA insulated cable

OM-CP-MULTIMOUNT-Z

Material: 316 SS
Dimensions: 44.5 H x 38 L x 38 mm W (1.75 x 1.5 x 1.5")

OM-CP-HITEMP140-FP-TSK (Data Logger with Thermal Shield)

Thermal Shield Specifications	OM-CP-HITEMP140-FP-TSK-FL (Flush)	OM-CP-HITEMP140-FP-TSK (Vented)
Dimensions (Enclosure)	70 x 51 mm dia. (2.75 x 2.0")	109 x 51 mm dia. (4.3 x 2.0")
Weight	190 g (6.7 oz) not including data logger	270 g (9.5 oz) not including data logger
Operating Environment	-200 to 250°C (-328 to 482°F) (Time limited - See table below) 0 to 100% RH	
Material	Enclosure: PTFE	

Maximum Exposure Time Chart	OM-CP-HITEMP140-FP-TSK-FL (Flush)		OM-CP-HITEMP140-FP-TSK (Vented)	
Ambient Temperature	Exposure Time in Air 150°C (302°F)	Exposure Time in Liquid 150°C (302°F)	Exposure Time in Air 150°C (302°F)	Exposure Time in Liquid 150°C (302°F)
-200°C (-328°F)	12 minutes	N/A	14 minutes	N/A
-180°C (-292°F)	13 minutes	N/A	15 minutes	N/A
-160°C (-256°F)	15 minutes	N/A	16 minutes	N/A
-140°C (-220°F)	17 minutes	N/A	18 minutes	N/A
-120°C (-184°F)	19 minutes	N/A	21 minutes	N/A
-100°C (-148°F)	22 minutes	N/A	24 minutes	N/A
-80°C (-112°F)	27 minutes	N/A	30 minutes	N/A
-60°C (-76°F)	37 minutes	22 minutes	42 minutes	25 minutes
-40 to 140°C (-40 to 284°F)	Indefinitely	Indefinitely	Indefinitely	Indefinitely
150°C (302°F)	59 minutes	34 minutes	66 minutes	40 minutes
160°C (320°F)	51 minutes	29 minutes	57 minutes	34 minutes
170°C (338°F)	43 minutes	25 minutes	48 minutes	29 minutes
180°C (356°F)	37 minutes	23 minutes	42 minutes	26 minutes
190°C (374°F)	34 minutes	20 minutes	38 minutes	23 minutes
200°C (392°F)	31 minutes	18 minutes	34 minutes	21 minutes
210°C (410°F)	29 minutes	17 minutes	32 minutes	19 minutes
220°C (428°F)	27 minutes	16 minutes	30 minutes	18 minutes
230°C (446°F)	25 minutes	15 minutes	27 minutes	17 minutes
240°C (464°F)	23 minutes	14 minutes	26 minutes	16 minutes
250°C (482°F)	22 minutes	13 minutes	24 minutes	15 minutes

All models shown

OM-CP-MULTIMOUNT-Z bracket, sold separately.

Data logger software, sold separately.

Vented thermal shield option.

Flush top thermal shield option.

OM-CP-IFC406 multiplexer data logger interface, sold separately.

To Order

Model No.	Description
OM-CP-HITEMP140-FP-36	High temperature data logger with 91 cm (36") flexible probe
OM-CP-HITEMP140-FP-36-CERT	High temperature data logger with 91 cm (36") flexible probe and NIST calibration certificate
OM-CP-HITEMP140-FP-36-TSK	OM-CP-HITEMP140-FP-36 data logger with vented thermal shield
OM-CP-HITEMP140-FP-36-TSK-CERT	OM-CP-HITEMP140-FP-36 data logger with vented thermal shield and NIST calibration certificate
OM-CP-HITEMP140-FP-36-TSK-FL	OM-CP-HITEMP140-FP-36 data logger with flush top thermal shield
OM-CP-HITEMP140-FP-36-TSK-FL-CERT	OM-CP-HITEMP140-FP-36 data logger with flush top thermal shield and NIST calibration certificate
OM-CP-HITEMP140-FP-72	High temperature data logger with 183 cm (72") flexible probe
OM-CP-HITEMP140-FP-72-CERT	High temperature data logger with 183 cm (72") flexible probe and NIST calibration certificate
OM-CP-HITEMP140-FP-72-TSK	OM-CP-HITEMP140-FP-72 data logger with vented thermal shield
OM-CP-HITEMP140-FP-72-TSK-CERT	OM-CP-HITEMP140-FP-72 data logger with vented thermal shield and NIST calibration certificate
OM-CP-HITEMP140-FP-72-TSK-FL	OM-CP-HITEMP140-FP-72 data logger with flush top thermal shield
OM-CP-HITEMP140-FP-72-TSK-FL-CERT	OM-CP-HITEMP140-FP-72 data logger with flush top thermal shield and NIST calibration certificate
OM-CP-IFC400	Docking station (for single data logger) with USB cable, software and manual
OM-CP-IFC406	Multiplexer data logger interface (accepts up to 6 data loggers) with USB cable, software and manual
OM-CP-BAT110	Replacement 3.6V high temperature lithium battery
OM-CP-MULTIMOUNT-Z	Mount/stand for OM-CP-HITEMP140 series data loggers
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)

Comes complete with 3.6V lithium battery. Operator's manual and USB interface cable are included with the OM-CP-IFC400 software/cable package and OM-CP-IFC406 multiplexer. OM-CP-IFC400 required for data logger operation. Both models sold separately.

***Ordering Example: OM-CP-HITEMP140-FP-36-CERT** high temperature data logger with 91 cm (36") flexible probe and NIST calibration certificate.*

High Temperature Data Logger With 50 mm (2") Fast Response Probe

NEW

OM-CP-HITEMP140-FR

5 YEAR WARRANTY | NIST | CE | RoHS

Optional

- **Fast Response Time**
- **Operating Temperature Range: -40 to 140°C (-40 to 284°F)**
- **Optional Vented or Flush Thermal Shield for Operation up to 250°C (482°F)**
- **Probe Measures from -200 to 260°C (-328 to 500°F)**
- **±0.1°C (±0.18°F) Accuracy**
- **Submersible (IP68)**
- **Trigger Settings**
- **Programmable Start and Stop Time**
- **4 Hz Reading Rate**

OM-CP-HITEMP140-FR shown larger than actual size.

The OM-CP-HITEMP140-FR is a high temperature data logger with an ultra-fast response time to record temperature during rapidly changing thermal processes. This high temperature data logger features a 50 L x 1.59 mm dia (2 x 0.0625") probe and is capable of recording up to 4 Hz, which is 4 times faster than other data loggers in this class. This allows the temperature sensor to quickly adapt and accurately record temperature variations in changing environments. Applications include oven profiling, steam sterilization, autoclave verification and mapping, seafood processing, flash freezing and more.

The OM-CP-HITEMP140-FR data logger is designed with food grade stainless steel. The device can be placed in environments up to 140°C (284°F) and the probe is capable of measuring from -200 to 260°C (-328 to 500°F). The OM-CP-HITEMP140-FR is also available with an optional thermal shield enclosure to extend the operating range of the data logger to -200 to 250°C (-328 to 482°F). The OM-CP-HITEMP140-FR-TSK (Thermal Shield Kit) comes with either a vented or flush top enclosure to accommodate a multitude of applications.

The Trigger Settings feature of the OM-CP-HITEMP140-FR allows users to configure high and low temperature thresholds that when met or exceeded, will automatically start or stop recording data to memory. This data logger is capable of storing up to 32,700 date and time stamped readings and features a nonvolatile solid state memory which retains data even if the battery becomes discharged.

The OM-CP-MULTIMOUNT-Z is a versatile mount or stand for use with the OM-CP-HITEMP140 series of data loggers. It can be used to stabilize a logger inside an autoclave, or screwed to a flat surface to create an anchored base. Made of 316 stainless steel, the OM-CP-MULTIMOUNT-Z is able to withstand temperatures up to 150°C (302°F) making it ideal for use in autoclave sterilization processes.

The OM-CP-HITEMP140-FR utilizes the latest software. Data can be viewed in graphical or tabular formats and summary and statistics views are available for further analysis. The software features export to Excel®, data annotation, digital calibration and more.

Specifications

OM-CP-HITEMP140-FR (DATA LOGGER WITHOUT THERMAL SHIELD)

TEMPERATURE

Temperature Sensor: 100 Ω platinum RTD
Probe Measurement Range: -200 to 260°C (-328 to 500°F)
Temperature Resolution: 0.01°C (0.02°F)
Calibrated Accuracy: ±0.1°C (±0.18°F)
20 to 140°C (68 to 284°F)

GENERAL

Data Logger Response Time (Hours: Minutes: Seconds: Fractions of a Second):

In Air: t60 - 00:00:39:00 (39 sec to reach 60% of step change) t90 - 00:02:71:00 (2 min 71 sec to reach 90% of step change)

In Water:
t60 - 00:00:10:00 (10 sec to reach 60% of step change)
t90 - 00:00:12:00 (12 sec to reach 90% of step change)

Reading Rate: 4 readings per second up
Memory: 32,767 readings
Start Modes:
• Software programmable immediate start
• Delay start up to 18 months in advance
Stop Modes: Manual or timed (specific date and time)
Trigger Settings: High and low limits may be set. Once data meets or exceed sets limits, the device will record to memory. Bi-level start and stop triggers can also be programmed. Users can specify the number of readings to take after the device triggers
Readings in Trigger Settings Mode: 10,922 readings
Real Time Recording: May be used with PC to monitor and record data in real time
Password Protection: An optional password may be programmed into the device to restrict access to configuration options. Data may be read without the password
Memory Wrap Around: Yes

Battery Type: 3.6V high-temperature lithium battery
Battery Life: 2 years typical (1 minute reading rate)
Calibration: Digital calibration through software
Calibration Date: Automatically recorded within device
Data Format: Date and time stamped °C, °F, °R, K
Time Accuracy: ±1 minute/month at 25ºC (77°F)
Extended Operation: ±20 minutes/month at 140°C (284°F)
Computer Interface: OM-CP-IFC400 USB docking station or OM-CP-IFC406 multiplexer interface required; 125,000 baud
Software: Windows® XP, SP3/Vista/7 and 8 (32-bit and 64-bit)
Operating Environment: -40 to 140ºC (-40 to 284ºF), 0 to 100% RH, 0.002 to 100 PSIA
IP Rating: IP68
Dimensions (Body): 48 H x 24.6 mm D (1.89 x 0.970")
Dimensions (Probe):
44.5 L x 1.59 mm dia (1.75 x 0.0625")
4.78 mm transitional dia (0.188")
Weight: 65 g (2.3 oz)
Materials: 316 Stainless Steel, PEEK

OM-CP-HITEMP140-FR-TSK (Data Logger with Thermal Shield)

Data Logger Response Time with Thermal Shield (Hours: Minutes: Seconds: Fractions of a Second)	OM-CP-HITEMP140-FR-TSK-FL (Flush)		OM-CP-HITEMP140-FR-TSK (Vented)	
	Exposure Time in Air	Exposure Time in Water	Exposure Time in Air	Exposure Time in Water
	t60 - 00:00:30:00	t60 - 00:00:09:00	t60 - 00:00:59:00	t60 - 00:00:10:00
	t90 - 00:13:10:00	t90 - 00:00:12:00	t90 - 00:22:10:00	t90 - 00:00:12:00
Dimensions (Enclosure)	70 x 51 mm dia. (2.75 x 2.0")		109 x 51 mm dia (4.3 x 2.0")	
Weight	190 g (6.7 oz) not including data logger		270 g (9.5 oz) not including data logger	
Operating Environment	-200 to 250°C (-328 to 482°F) (Time limited - See table below) 0% to 100% RH			
Material	Enclosure: PTFE			

Maximum Exposure Time Chart	OM-CP-HITEMP140-FR-TSK-FL (Flush)		OM-CP-HITEMP140-FR-TSK (Vented)	
Ambient Temperature	Exposure Time in Air 150°C (302°F)	Exposure Time in Liquid 150°C (302°F)	Exposure Time in Air 150°C (302°F)	Exposure Time in Liquid 150°C (302°F)
-200°C (-328°F)	12 minutes	N/A	14 minutes	N/A
-180°C (-292°F)	13 minutes	N/A	15 minutes	N/A
-160°C (-256°F)	15 minutes	N/A	16 minutes	N/A
-140°C (-220°F)	17 minutes	N/A	18 minutes	N/A
-120°C (-184°F)	19 minutes	N/A	21 minutes	N/A
-100°C (-148°F)	22 minutes	N/A	24 minutes	N/A
-80°C (-112°F)	27 minutes	N/A	30 minutes	N/A
-60°C (-76°F)	37 minutes	22 minutes	42 minutes	25 minutes
-40 to 140°C (-40 to 284°F)	Indefinitely	Indefinitely	Indefinitely	Indefinitely
150°C (302°F)	59 minutes	34 minutes	66 minutes	40 minutes
160°C (320°F)	51 minutes	29 minutes	57 minutes	34 minutes
170°C (338°F)	43 minutes	25 minutes	48 minutes	29 minutes
180°C (356°F)	37 minutes	23 minutes	42 minutes	26 minutes
190°C (374°F)	34 minutes	20 minutes	38 minutes	23 minutes
200°C (392°F)	31 minutes	18 minutes	34 minutes	21 minutes
210°C (410°F)	29 minutes	17 minutes	32 minutes	19 minutes
220°C (428°F)	27 minutes	16 minutes	30 minutes	18 minutes
230°C (446°F)	25 minutes	15 minutes	27 minutes	17 minutes
240°C (464°F)	23 minutes	14 minutes	26 minutes	16 minutes
250°C (482°F)	22 minutes	13 minutes	24 minutes	15 minutes

All models shown smaller than actual size.

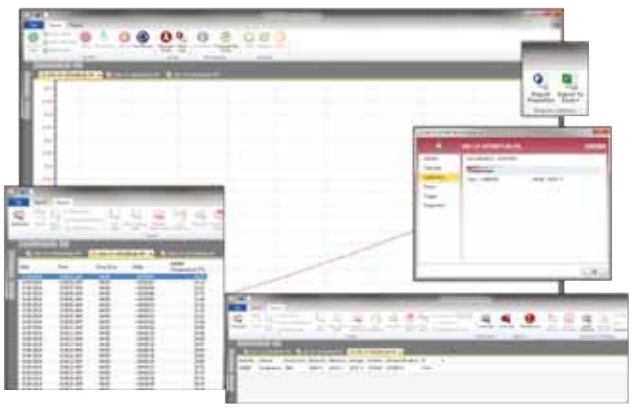
Vented thermal shield option.

Flush top thermal shield option.

OM-CP-MULTIMOUNT-Z bracket, sold separately.

OM-CP-MULTIMOUNT-Z
Material: 316 SS
Dimensions: 44.5 H x 38 L x 38 mm W (1.75 x 1.5 x 1.5")

OM-CP-IFC406 multiplexer data logger interface, sold separately.



Data logger software, sold separately.

To Order

Model No.	Description
OM-CP-HITEMP140-FR	High temperature data logger with 50 mm (2") fast response probe
OM-CP-HITEMP140-FR-CERT	High temperature data logger with a 50 mm (2") fast response probe and NIST calibration certificate
OM-CP-HITEMP140-FR-TSK	OM-CP-HITEMP140-FR data logger and vented thermal shield
OM-CP-HITEMP140-FR-TSK-CERT	OM-CP-HITEMP140-FR data logger and vented thermal shield and NIST calibration certificate
OM-CP-HITEMP140-FR-TSK-FL	OM-CP-HITEMP140-FR data logger and flush top thermal shield
OM-CP-HITEMP140-FR-TSK-FL-CERT	OM-CP-HITEMP140-FR data logger and flush top thermal shield and NIST calibration certificate
OM-CP-IFC400	Docking station (for single data logger) with USB cable, software and manual
OM-CP-IFC406	Multiplexer data logger interface (accepts up to 6 data loggers) with USB cable, software and manual
OM-CP-BAT110	Replacement 3.6V high temperature lithium battery
OM-CP-MULTIMOUNT-Z	Mount/stand for OM-CP-HITEMP140 series data loggers
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)

Comes complete with 3.6V lithium battery. Operator's manual and USB interface cable are included with the OM-CP-IFC400 software/cable package and OM-CP-IFC406 multiplexer. OM-CP-IFC400 required for data logger operation. Both models sold separately.
***Ordering Example: OM-CP-HITEMP140-FR-CERT** high temperature data logger with 50 mm (2") fast response probe and NIST certificate.*

High Temperature Data Logger With Built-In M12 Connector

OM-CP-HITEMP140-M12

Optional

OM-CP-HITEMP140-M12 shown larger than actual size.

- M12 Probe Connector– Quickly Interchange RTD Probes to Fit Your Application
- Measurement Range of -200 to 850°C (-328 to 1562°F)
- ±0.05°C (±0.09°F) Accuracy
- User Replaceable Battery
- Trigger Settings
- Programmable Start and Stop Time
- Battery Life Indicator

Top view showing detail of M12 connector.

The OM-CP-HITEMP140-M12 is a rugged and versatile high temperature data logger featuring an M12 probe connector. Compatible with a wide variety of M12 RTD probe styles, this data logger is capable of measuring up to 850°C (1562°F) (probe dependent). With the ability to change probes as needed, this device satisfies a multitude of application needs with one powerful data logger versus the need for multiple loggers.

The OM-CP-HITEMP140 data logger has a water tight body enclosure made of food grade stainless steel. It can be placed in environments with temperatures as high as 140°C (284°F) making it suitable for a wide range of applications including autoclave verification, food preparation and processing, environmental studies, well monitoring, washer disinfectors and pasteurization. The OM-CP-HITEMP140-M12 records and stores up to 43,690 time stamped readings and is equipped with non-volatile solid state memory which retains data even if the battery becomes discharged.

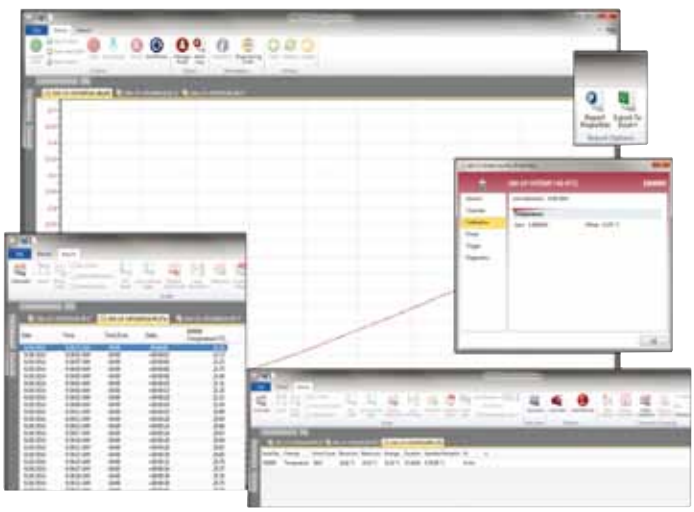
Need an M12 Probe?

OMEGA Offers a Wide Range of M12 Probes Compatible with the OM-CP-HITEMP140-M12 Data Logger!

PRS-3-100-A-TW-0250-D1-M12

PR-21A-3-100-A-1/4-0600-M12-1

Probes shown smaller than actual size.



Data logger software.

Using the OM-CP-HITEMP140-M12 software, starting, stopping and downloading the OM-CP-HITEMP140-M12 is simple and easy. Graphical, tabular and summary data is provided for analysis and data can be viewed in °C, °F, K or °R. The data can also be automatically exported to Excel® for further calculations.

OM-CP-MULTIMOUNT-Z with OM-CP-HITEMP140-M12 shown larger than actual size.

The OM-CP-MULTIMOUNT-Z is a versatile mount or stand for use with the OM-CP-HITEMP140 series of data loggers. It can be used to stabilize a logger inside an autoclave, or screwed to a flat surface to create an anchored base. The OM-CP-MULTIMOUNT-Z is made of stainless steel and is able to withstand temperatures up to 150°C (302°F) making it ideal for use in autoclave sterilization processes.

OM-CP-ALUCASE-14 and OM-CP-ALUCASE-18 shown smaller than actual size.

The OM-CP-ALUCASE-14 and OM-CP-ALUCASE-18 are high quality, multi-purpose briefcases, designed for the protection, transport and storage of data loggers, equipment and accessories. These durable aluminum cases include pick and pluck foam inserts, allowing the user to customize a snug fit and secure any combination of products. The briefcase frame is strong yet surprisingly light weight with a comfortable ergonomically upholstered handle. Two sizes are available: a compact 36 cm (14") width (OM-CP-ALUCASE-14) and large 47 cm (18") width (OM-CP-ALUCASE-18), both featuring an egg crate foam lined lid and keyed locks.

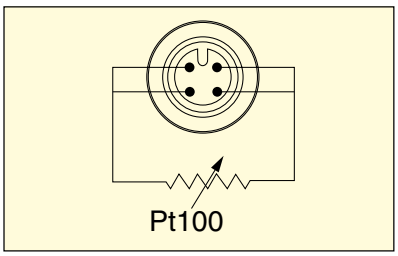
OM-CP-IFC406 with assorted OM-CP Series data loggers (sold separately) shown smaller than actual size.

The OM-CP-IFC406 is a multiplexer data logger interface for compatible OM-CP Series data loggers. The OM-CP-IFC406 allows up to six data loggers to be connected into one interface. Up to three OM-CP-IFC406 units may be daisy-chained together to communicate with a total of 18 data loggers through one USB port. To connect multiple OM-CP-IFC406 multiplexer interfaces together, simply join the units side by side, making sure the spring pin contacts are connected and magnetically joined.

Specifications

Temperature Sensor: Pt100 RTD probe with M12 connector (probe sold separately)

Compatible with RTD Probes with the Following Wiring Configuration:



OM-CP-HITEMP140-M12 shown larger than actual size.

Measurement Range: 18 to 400 Ω; -200 to 850°C (-328 to 1562°F) (probe dependent)

Temperature Resolution: 0.0001 Ω; 0.01°C (0.018°F) (probe dependent)

Calibrated Accuracy: ±0.015 Ω; ±0.05°C (±0.09°F) (probe dependent)

Calibrated Accuracy Range: 18 to 200 Ω; -200 to 265°C (-328 to 509°F)

Connector Type: M12 female, 4-pin

Reading Rate: 4 readings per second up to 1 reading every 24 hours

Memory: 43,690 readings

Start Modes:

- Software programmable immediate start
- Delay start up to 18 months in advance

Stop Modes: Manual or timed (specific date and time)

Real Time Recording: May be used with PC to monitor and record data in real time

Password Protection: An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password

Trigger Settings: High and low limits may be set. Once data meets or exceed sets limits, the device will record to memory. Bi-level start and stop triggers can also be programmed. Users can specify the number of readings to take after the device triggers

Readings in Trigger Settings Mode: 18,724 readings

Memory Wrap Around: Yes

Battery Type: 3.6V high-temperature lithium battery included; user replaceable

Battery Life: 2 years typical [1 minute reading rate at 25°C (77°F)]

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Data Format: Date and time stamped °C, °F, °R, K

Time Accuracy: ±1 minute/month at 25°C (77°F)

Computer Interface: OM-CP-IFC400 or OM-CP-IFC406 USB docking station required; 125,000 baud

Operating Environment: -40 to 140ºC (-40 to 284ºF), 0 to 100% RH non-condensing, 0.002 to 60 psia

Software: XP SP3/Vista/7 and 8 (32-bit and 64-bit)

IP Rating: IP40-logger alone (with no probe connected); the logger will inherit IP rating of the attached probe (up to, and including IP68/IP69K)

Dimensions (Body): 54.5 H x 24.6 mm dia (2.15 x 0.97")

Weight: 85 g (3.0 oz)

Materials (Body): 316 Stainless Steel

To Order

Model No.	Description
OM-CP-HITEMP140-M12	High temperature data logger with M12 connector
OM-CP-HITEMP140-M12-CERT	High temperature data logger with M12 connector and NIST calibration certificate
OM-CP-IFC400	Docking station (for single data logger) with USB cable, software and manual
OM-CP-IFC406	Multiplexer data logger interface (accepts up to 6 data loggers) with USB cable, software and manual
OM-CP-BAT110	Replacement 3.6 V lithium battery
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-MULTIMOUNT-Z	Mount/stand for OM-CP-HITEMP140 data loggers
OM-CP-ALUCASE-14	Aluminum data logger briefcase, 36.8 x 29.2 cm (14.5 x 11.5")
OM-CP-ALUCASE-18	Aluminum data logger briefcase, 47 x 38.1 cm (18.5 x 15")

Comes complete with 3.6V lithium battery. Operator's manual and USB interface cable are included with the OM-CP-IFC400 software/cable package and OM-CP-IFC406 multiplexer. OM-CP-IFC400 required for data logger operation. Both models sold separately).

***Ordering Example: OM-CP-HITEMP140-M12** high temperature data logger and **OM-CP-IFC400** docking station (for single data logger) with USB cable, software and manual.*

High Temperature Data Logger with 559 mm (22") Stainless Steel Flexible Probe with Optional Thermal Shield

Part of the NOMAD® Family

OM-CP-HITEMP140-PT Series

Optional

- 559 mm (22") Flexible Probe
- Operating Temperature Range: -40 to 140°C (-40 to 284°F)
- Optional Thermal Shield for Operation up to 250°C (482°F)
- Submersible NEMA 4X (IP68)
- Programmable Start Time
- User Calibration Through Software
- Real-Time Operation
- Autoclave Verification
- Pharmaceutical
- Implement HACCP Programs
- Food Preparation and Processing

OM-CP-HITEMP140-PT-1, shown smaller than actual size.

Docking station sold separately.

OM-CP-HITEMP140-PT-1-TSK, shown smaller than actual size.

The OM-CP-HITEMP140-PT Series are submersible, temperature data loggers that can operate up to 140°C (284°F) and have an accuracy of ±0.1°C (0.18°F). These devices feature a 559 mm (22") flexible stainless steel probe for measuring extended temperatures up to 260°C (500°F). The probe is durable and can be spiraled, bent or angled in any direction, making it easy to log temperatures within bottles, vials or other hard to reach places.

The OM-CP-HITEMP140-PT records date and time stamped readings, and has non-volatile solid state memory that will retain data even if the battery becomes discharged. Data retrieval is simple. Plug the device into an available USB port and our easy-to-use software does the rest. The software converts a PC into a real-time strip chart recorder.

Using the software, starting,stopping and downloading the OM-CP-HITEMP140-PT is simple and easy. Graphical, tabular and summary data is provided for analysis and data can be viewed in °C, °F, K or °R. The data can also be automatically exported to Excel® for further calculations.

The OM-CP-IFC406 multiplexer data logger interface allows for multiple devices to be connected into one interface. Each OM-CP-IFC406 allows for 6 data loggers to be connected. Up to 3 OM-CP-IFC406 units may be daisy-chained together to communicate with a total of 18 devices through 1 USB port. To connect multiple OM-CP-IFC406 interfaces together, simply join the units side by side, making sure the spring pin contacts are connected and magnetically joined.

The OM-CP-HITEMP140-TSK is a kit that includes a OM-CP-HITEMP140-PT data logger housed in a thermal shield.

OM-CP-IFC406 multiplexer data logger interface, shown smaller than actual size.

The combined features of the ±0.1°C accuracy of the OM-CP-HITEMP140-PT and the properties of the durable thermal shield allow the device to be used for a wide range of validation applications.

Using the software, the data logger is fast and easy to setup. Remove the thermal shield and place the OM-CP-HITEMP140-PT into the OM-CP-IFC400 docking station (sold separately). Using the software, an immediate or delay start can be chosen, as well as the reading rate. Select Start to program the settings and start the data logger.

Place the thermal shield around the OM-CP-HITEMP140-PT and screw it back together. The device is ready to be deployed.

The OM-CP-HITEMP140-TSK can be completely submerged and is built for applications that require extreme temperature monitoring. These two devices can be started and stopped directly from a computer and their compact design allows them to fit almost anywhere.

Specifications

OM-CP-HITEMP140-PT-TSK (Thermal Shield)

Operating Environment: -200 to 250ºC (-328 to 482ºF) (time limited) 0 to 100% RH

Enclosure Material: PTFE

Dimensions: 110 H x 51 mm dia. (4.3 x 2.0")

Weight: 274 g (9.7 oz) not including data logger

OM-CP-HITEMP140-PT (Without Thermal Shield)

Temperature Sensor: 100Ω Platinum RTD

Probe Measurement Range: -200 to 260°C (-328 to 500ºF)

Temperature Resolution: 0.01ºC (0.02ºF)

Calibrated Accuracy: ±0.1ºC (±0.18ºF); 20 to 140ºC (68 to 284ºF)

Start Modes: Software programmable immediate start or delay start up to eighteen months in advance.

Stop Modes: Manual through software timed (specific data and time)

Real Time Recording: May be used with PC to monitor and record data in real time

Password Protection: An optional password may be programmed into the device to restrict access to configuration options, Data may be read out with the password

Memory: 32,700 readings

Wrap Around: Yes

Reading Rate: One second up to once every 24 hours

Battery Type: 3.6V high-temperature lithium battery (included); user replaceable

Battery Life: 1 year typical [1 minute reading rate at 25ºC (77ºF)]

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Data Format: Date and time stamped ºC, ºF, K, ºR

Time Accuracy: ±1 minute/month at 20 to 30ºC (68 to 86ºF)

Computer Interface: OM-CP-IFC400 docking station required; 125,000 baud

Software: Windows® XP SP3/VISTA/7 and 8 (32- and 64-bit)

Operating Environment: -40 to 140ºC (-40 to 284°F), 0 to 100% RH

Weight: 120 g (4.2 oz)

Material: 316 Stainless Steel

Dimensions:

Body: 48 x 25 mm dia. (1.9 x 0.97")

Probe Tip:

OM-CP-HITEMP140-PT-1: 3.2 OD x 42 mm L (0.125 x 1.7")

OM-CP-HITEMP140-PT-5: 3.2 OD x 121 mm L (0.125 x 4.8") with 4.8 OD x 25 mm L handle (0.188 x 1")

Flexible Probe Portion: 559 x 1.6 mm OD dia. (22 x 0.062")

OM-CP-IFC406 Multiplexer

Operating Environment: 10 to 35°C (50 to 95°F) 0 to 95% RH non-condensing

Baud Rate: 125,000 baud

Connection Type: USB (to PC)

Weight: 750 g (1.65 lb)

Material: 6061 Aluminum (PTFE impregnated hard anodize coating), ABS plastic

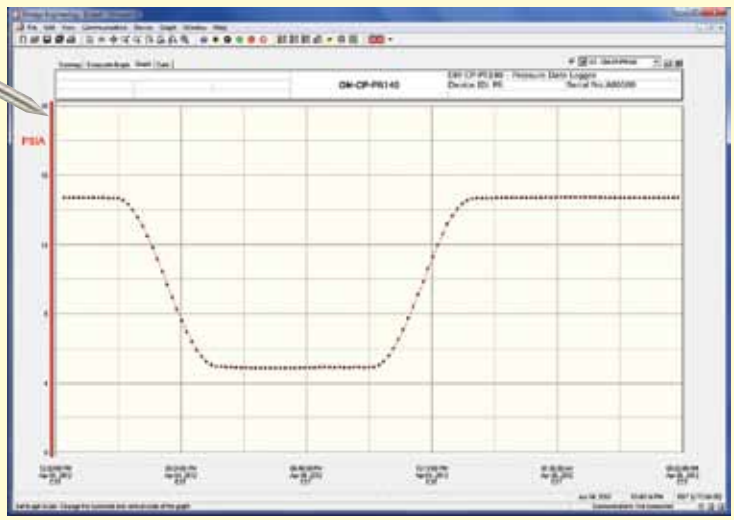
Enclosure Dimensions: 24.13 L x 4.95 W x 4.45 cm H (9.5 x 1.95 x 1.75")

OM-CP-HITEMP140-PT-TSK (Data Logger with Thermal Shield)

Ambient Temperature	Time in Air to Maximum Internal Temp (140°C / 284°F)	Time in Liquid to Maximum Internal Temp (140°C / 284°F)
-200°C (-328°F)	18 min	N/A
-180°C (-292°F)	19 min	N/A
-160°C (-256°F)	21 min	N/A
-140°C (-220°F)	24 min	N/A
-120°C (-184°F)	27 min	N/A
-100°C (-148°F)	32 min	N/A
-80°C (-112°F)	40 min	N/A
-60°C (-76°F)	55 min	25 min
-40°C (-40°F)	70 min	32 min
-20 to 140°C (-4 to 284°F)	Indefinitely	Indefinitely
150°C (302°F)	88 min	40 min
160°C (320°F)	75 min	34 min
170°C (338°F)	63 min	29 min
180°C (356°F)	55 min	26 min
190°C (374°F)	50 min	23 min
200°C (392°F)	45 min	21 min
210°C (410°F)	42 min	19 min
220°C (428°F)	39 min	18 min
230°C (446°F)	36 min	17 min
240°C (464°F)	34 min	16 min
250°C (482°F)	32 min	15 min

OM-CP-HITEMP140-PT-1, shown smaller than actual size.

OM-CP-IFC406 multiplexer data logger interface, shown smaller than actual size.



OM-CP-IFC400, Windows® software displays data in graphical or tabular format.

To Order

Model No.	Description
OM-CP-HITEMP140-PT-1	High temperature data logger with stainless steel flexible probe, 42 mm (1.7") probe tip
OM-CP-HITEMP140-PT-1-CERT	High temperature data logger with stainless steel flexible probe, 42 mm (1.7") probe tip and NIST calibration certificate
OM-CP-HITEMP140-PT-1-TSK	High temperature data logger with stainless steel flexible probe, 42 mm (1.7") probe tip and thermal shield
OM-CP-HITEMP140-PT-1-TSK-CERT	High temperature data logger with stainless steel flexible probe, 42 mm (1.7") probe tip, thermal shield and NIST calibration certificate
OM-CP-HITEMP140-PT-5	High temperature data logger with stainless steel flexible probe, 121 mm (4.8") probe tip
OM-CP-HITEMP140-PT-5-CERT	High temperature data logger with stainless steel flexible probe, 121 mm (4.8") probe tip and NIST calibration certificate
OM-CP-HITEMP140-PT-5-TSK	High temperature data logger with stainless steel flexible probe, 121 mm (4.8") probe tip and thermal shield
OM-CP-HITEMP140-PT-5-TSK-CERT	High temperature data logger with stainless steel flexible probe, 121 mm (4.8") probe tip, thermal shield and NIST calibration certificate
OM-CP-IFC406	Multiplexer data logger interface (accepts up to 6 data loggers) with USB cable, software and manual
OM-CP-IFC400	Docking station (for single data logger) with software, USB cable and manual
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-BAT110	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-IFC400 software/cable package and OM-CP-IFC406 multiplexer. OM-CP-IFC400 required for data logger operation. Both models sold separately.

***Ordering Example: OM-CP-HITEMP140-PT-1** High temperature data logger with stainless steel flexible probe, 42 mm (1.7") probe tip, and **OM-CP-IFC400** docking station with software.*

High Temperature Dual Channel Data Loggers

With Two Remote Temperature Probes

OM-CP-HITEMP140X2-FP Series

5 YEAR WARRANTY NIST CE RoHS

Optional

OM-CP-HITEMP140X2-FP-72-PT-1 shown actual size.

- **OM-CP-HITEMP140X2-FP-72 Has Two Flexible Probes**
- **OM-CP-HITEMP140X2-FP-72-PT-1 and OM-CP-HITEMP140X2-FP-72-PT-5 Have One Flexible Probe and One Stainless Steel Bendable Probe**
- **Flexible Probe Measures from -60 to 260°C (-76 to 500°F)**
- **Stainless Steel Bendable Probe Measures from -200 to 350°C (-328 to 662°F)**
- **Operating Temperature Range (Data Logger): -40 to 140°C (-40 to 284°F)**
- **±0.1°C (0.18°F) Accuracy**
- **Submersible (IP68)**
- **Trigger Settings**
- **Programmable Start and Stop Time**

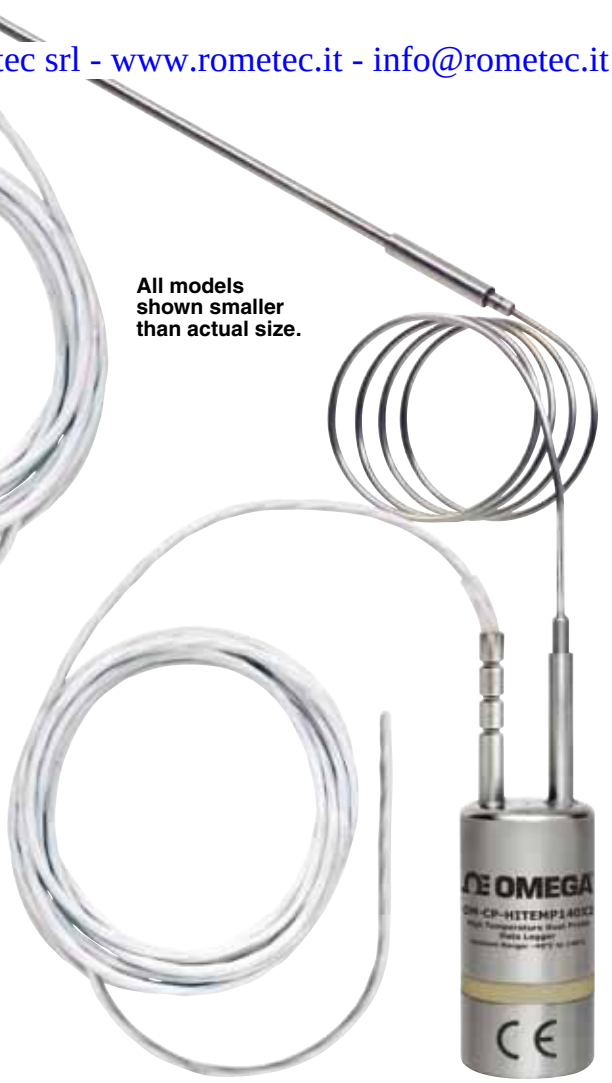
The OM-CP-HITEMP140X2-FP Series of dual channel high temperature data loggers feature a stainless steel data logger body and are available with either two 183 cm (72") flexible probes (OM-CP-HITEMP140X2-FP-72) or with one flexible probe and a stainless steel bendable probe combination (OM-CP-HITEMP140X2-FP-72-PT-1 and OM-CP-HITEMP140X2-FP-72-PT-5).

The dual probes of the OM-CP-HITEMP140X2-FP Series allow for simultaneous temperature monitoring and provide flexibility in applications such as oven mapping, surface temperature monitoring, autoclave validation and sterilization processes.

The OM-CP-HITEMP140X2-FP-72 model offers two 183 cm (72") long, lightweight, flexible RTD probes coated with PFA insulation. The FP probe design allows the probe to be easily maneuvered and is ideal for temperature monitoring inside test tubes, small vials, and other delicate applications. The narrow thermistor probe tip is compatible for use with the OM-CP-MICRODISC probe attachment allowing for precise surface temperature monitoring of shelving and more.

OM-CP-HITEMP140X2-FP-72

All models shown smaller than actual size.



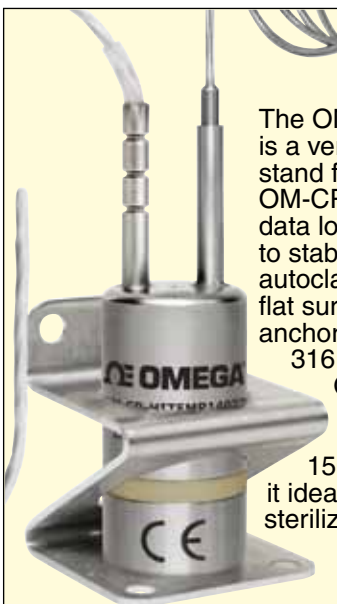
OM-CP-HITEMP140X2-FP-72-PT-5

The OM-CP-HITEMP140X2-FP-72-PT-1 and OM-CP-HITEMP140X2-FP-72-PT-5 models feature a 61 cm (24") stainless steel bendable probe with the option of either a 2.5 cm (1") or 12.7 cm (5") probe tip (sheath). The stainless steel probe can be bent, angled, and coiled in any direction and formed into position as needed. The sharp probe tip allows for easy insertion and has an extended measurement range of -200 to 350°C (-328 to 662°F).

The body of the OM-CP-HITEMP140X2-FP data loggers are capable of operating in temperatures from -40 to 140°C (-40 to 284°F). All models have the capacity to store up to 32,700 time and date stamped readings and feature non-volatile solid state memory that will retain data even if the battery becomes discharged.

OM-CP-IFC400, Windows® software displays data in graphical or tabular format.

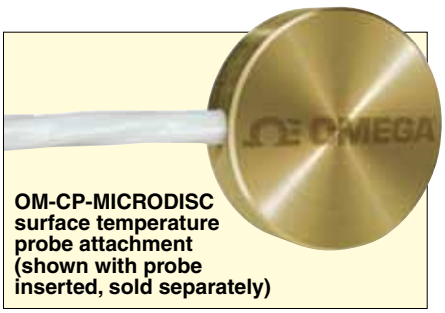
The OM-CP-HITEMP140X2-FP utilizes the latest software. The device can be started, stopped, and data can be downloaded quickly and easily. Once in the software, the data can be reviewed in graphic, tabular, or summary form as well as exported to Excel® for further analysis and calculations.



The OM-CP-MULTIMOUNT-Z is a versatile mount or stand for use with the OM-CP-HITEMP140 series of data loggers. It can be used to stabilize a logger inside an autoclave, or screwed to a flat surface to create an anchored base. Made of 316 stainless steel, the OM-CP-MULTIMOUNT-Z is able to withstand temperatures up to 150°C (302°F) making it ideal for use in autoclave sterilization processes.

OM-CP-MULTIMOUNT-Z with OM-CP-HITEMP140X2, shown smaller than actual size.

OM-CP-IFC406 multiplexer data logger interface, shown smaller than actual size (data loggers sold separately).



OM-CP-MICRODISC surface temperature probe attachment (shown with probe inserted, sold separately)

SPECIFICATIONS

TEMPERATURE

Temperature Sensor:

OM-CP-HITEMP140X2-FP: Flexible RTD probe

OM-CP-HITEMP140X2-FP-PT: Flexible RTD Probe and bendable RTD probe

Probe Measurement Range:

Flexible Probe: -60 to 260°C (-76 to 500°F)

Bendable Probe: -200 to 350°C (-328 to 662°F)

Temperature Resolution: 0.01°C (0.02°F)

Calibrated Accuracy: ±0.1°C (±0.18°F)

GENERAL

Reading Rate: 1 reading every second up to 1 reading every 24 hours

Memory: 32,767 readings

Start Modes:

- Software programmable immediate start
- Delay start up to 18 months in advance

Stop Modes: Manual or Timed (specific date and time)

Real Time Recording: May be used with PC to monitor and record data in real time

Password Protection: An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password

Readings in Trigger Settings Mode: 16,383 readings

Trigger Settings: High and Low limits may be set. Once data meets or exceed set limits, the device will record to memory. Bi-level start and stop triggers can also be programmed. Users can specify the number of readings to take after the device triggers. (Triggering on channel 1 only)

Memory Wrap Around: Yes (software selectable)

Battery Type: 3.6V high-temperature lithium battery included; user replaceable

Battery Life: 1 year typical [1 minute reading rate at 25°C (77°F)]

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Data Format: Date and time stamped °C, °F, °R, K

Time Accuracy: 1 minute/month @ 25°C (77°F)

- **1 minute/month at 25°C (77°F)**

Computer Interface: OM-CP-IFC400 USB docking station or OM-CP-IFC406 multiplexer interface required; 125,000 baud

Software: Windows XP SP3/Vista/7 and 8 (32- and 64-bit)

Operating Environment: -40 to 140°C (-40 to 284°F), 0 to 100% RH, 0.002 to 100 psia

IP Rating: IP68

Dimensions (Body): 48 H x 24.6 mm dia (1.89 x 0.97")

Dimensions (Probe):

OM-CP-HITEMP140X2-FP-72:

Flexible Probe: 1829 L x 2.5 mm dia (72 x 0.1")

OM-CP-HITEMP140X2-FP-72-PT-1 with 2.5 cm (1")

Bendable Probe:

Probe Tip: 42 L x 3.2 mm dia (1.7 x 0.125")

Bendable Portion: 559 L x 1.6 mm dia (22 x 0.062")

OM-CP-HITEMP140X2-FP-72-PT-5 with 12.7 cm (5")

Bendable Probe:

Probe Tip: 121 L x 3.2 mm dia (4.8 x 0.125") with 25 L x 4.8 mm dia (1 x 0.188") handle

Bendable Portion: 559 L x 1.6 mm dia (22 x 0.062")

Weight:

OM-CP-HITEMP140X2-FP-72: 115 g (4.1 oz)

OM-CP-HITEMP140X2-FP-72-PT: 110 g (3.9 oz)

Materials:

Body: 316 stainless steel, PEEK

Bendable Probe: 316 stainless steel

Flexible Probe: PFA insulated cable

OM-CP-HITEMP140X2-FP-72-PT-5 shown smaller than actual size.

To Order

Model No.	Description
OM-CP-HITEMP140X2-FP-72	High temperature data logger with two 183 cm (72") flexible probes
OM-CP-HITEMP140X2-FP-72-CERT	High temperature data logger with two 183 cm (72") flexible probes and NIST calibration certificate
OM-CP-HITEMP140X2-FP-72-PT-1	High temperature data logger with 183 cm (72") flexible probe and 61 cm (24") bendable stainless steel probe with 2.5 cm (1") tip
OM-CP-HITEMP140X2-FP-72-PT-1-CERT	High temperature data logger with 183 cm (72") flexible probe and 61 cm (24") bendable stainless steel probe with 2.5 cm (1") tip and NIST calibration certificate
OM-CP-HITEMP140X2-FP-72-PT-5	High temperature data logger with 183 cm (72") flexible probe and 61 cm (24") bendable stainless steel probe with 12.7 cm (5") tip
OM-CP-HITEMP140X2-FP-72-PT-5-CERT	High temperature data logger with 183 cm (72") flexible probe and 61 cm (24") bendable stainless steel probe with 12.7 cm (5") tip and NIST calibration certificate
OM-CP-IFC400	Docking station (for single data logger) with USB cable, software and manual
OM-CP-IFC406	Multiplexer data logger interface (accepts up to 6 data loggers) with USB cable, software and manual
OM-CP-BAT110	Replacement 3.6V high temperature lithium battery
OM-CP-MULTIMOUNT-Z	Mount/stand for OM-CP-HITEMP140 series data loggers
OM-CP-MICRODISC	Surface temperature probe attachment
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)

Comes complete with 3.6V lithium battery. Operator's manual and USB interface cable are included with the OM-CP-IFC400 software/cable package and OM-CP-IFC406 multiplexer. OM-CP-IFC400 required for data logger operation. Both models sold separately.

***Ordering Example: OM-CP-HITEMP140X2-FP-72-CERT** high temperature data logger with two 183 cm (72") flexible probes and NIST calibration certificate.*

High Temperature Dual Channel Data Loggers

With Ambient and Remote Temperature Probes

OM-CP-HITEMP140X2-TD Series

5 YEAR WARRANTY · NIST · CE · RoHS

Optional

- **OM-CP-HITEMP140X2-TD-FP-72 Has One Rigid Ambient Probe and One Flexible Probe**
- **OM-CP-HITEMP140X2-TD-PT-1 and OM-CP-HITEMP140X2-TD-PT-5 Have One Rigid Ambient Probe and One Stainless Steel Bendable Probe**
- **Rigid Ambient Probe Measures from -200 to 260°C (-328 to 500°F)**
- **Flexible Probe Measures from -60 to 260°C (-76 to 500°F)**
- **Stainless Steel Bendable Probe Measures from -200 to 350°C (-328 to 662°F)**
- **Operating Temperature Range (Data Logger): -40 to 140°C (-40 to 284°F)**
- **±0.1°C (±0.18°F) Accuracy**
- **Submersible (IP68)**
- **Trigger Settings**
- **Programmable Start and Stop Time**

OM-CP-HITEMP140X2-TD-FP-72 shown actual size.

The OM-CP-HITEMP140X2-TD series of dual probe data loggers offer extreme flexibility for high temperature monitoring applications. These models all feature a 5.1 cm (2") rigid transitional diameter probe to measure ambient temperature, combined with a second bendable or flexible probe option. The rigid ambient probe is made of stainless steel, offers a fast response time and is suitable for the harshest environments.

The OM-CP-HITEMP140X2-TD-PT-1 and the OM-CP-HITEMP140X2-TD-PT-5 models combine the 5.1 cm (2") rigid ambient probe with a 61 cm (24") bendable probe made of stainless steel with either a 2.5 cm (1") or 12.7 cm (5") probe sheath at the tip. The stainless steel PT probe options provide the ability to retain shape when bent into position and offer an extremely high measurement range of up to 350°C.

The OM-CP-HITEMP140X2-TD-FP-72 combines the 5.1 cm (2") rigid ambient probe with a 183 cm (72") long lightweight RTD flexible probe, designed for easy placement. The flexible probe option is very pliable and coated with PFA insulation making it ideal for use inside small vials and test tubes. This probe style has a narrow diameter, high accuracy and is ideal for steam sterilization and lyophilization. The flexible probe is also compatible with the OM-CP-MICRODISC probe attachment, used for the surface temperature monitoring of shelving and more.

The operating temperature range for the data logger body is -40 to 140°C (-40 to 284°F). Because of the simultaneous ambient and remote temperature recording, the OM-CP-HITEMP140X2-TD series is ideal for use in autoclave mapping, food processing applications, and much more.

The OM-CP-HITEMP140X2-TD series utilizes the latest software. This allows for simple starting, stopping and downloading of collected data. The devices are able to store up to 32,700 time and date stamped readings in non-volatile solid state memory. Once the readings have been downloaded to the software, it can be viewed in graphic, tabular, and summary form for easy analysis, as well as the potential to be exported into Excel for further calculations.

The OM-CP-MULTIMOUNT-Z is a versatile mount or stand for use with the OM-CP-HITEMP140 series of data loggers. It can be used to stabilize a logger inside an autoclave, or screwed to a flat surface to create an anchored base. Made of 316 stainless steel, the OM-CP-MULTIMOUNT-Z is able to withstand temperatures up to 150°C (302°F) making it ideal for use in autoclave sterilization processes.

SPECIFICATIONS

TEMPERATURE

Temperature Sensor:

OM-CP-HITEMP140X2-TD-PT-1, OM-CP-HITEMP140X2-TD-PT-5: Rigid ambient RTD probe with a stainless steel bendable RTD probe

OM-CP-HITEMP140X2-TD-FP-72: Rigid ambient RTD probe with a PFA insulated flexible RTD probe

Probe Measurement Range:

Rigid Ambient Probe: -200 to 260°C (-328 to 500°F)

Stainless Steel Bendable Probe: -200 to 350°C (-328 to 662°F)

Flexible Probe: -60 to 260°C (-76 to 500°F)

Temperature Resolution: 0.01°C (0.02°F)

Calibrated Accuracy: ±0.1°C (±0.18°F)

GENERAL

Reading Rate: 1 reading every second up to 1 reading every 24 hours

Memory: 32,767 readings

Start Modes:

- **Software programmable immediate start**
- **Delay start up to 18 months in advance**

Stop Modes: Manual or Timed (specific date and time)

Real Time Recording: May be used with PC to monitor and record data in real time

Password Protection: An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password

Readings in Trigger Settings Mode: 16,383 readings

Trigger Settings: High and Low limits may be set. Once data meets or exceed set limits, the device will record to memory. Bi-level start and stop triggers can also be programmed. Users can specify the number of readings to take after the device triggers. (Triggering on channel 1 only)

Memory Wrap Around: Yes (software selectable)

Battery Type: 3.6V high-temperature lithium battery included; user replaceable

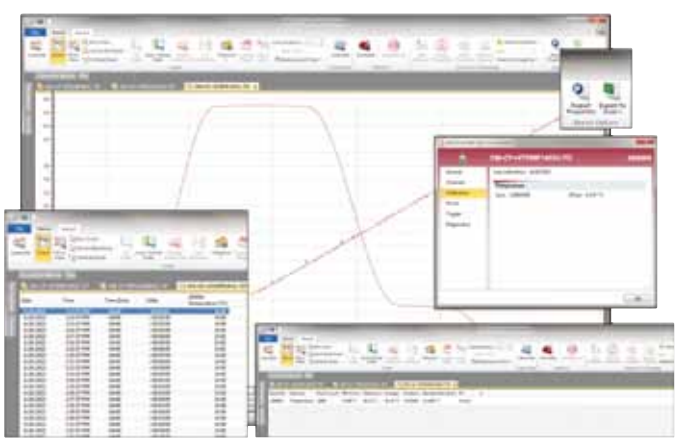
Battery Life: 1 year typical [1 minute reading rate at 25°C (77°F)]

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Data Format: Date and time stamped °C, °F, °R, K

Time Accuracy: 1 minute/month at 25°C (77°F)



OM-CP-IFC400. Windows® software displays data

OM-CP-HITEMP140X2-TD-PT-5 shown smaller than actual size.

OM-CP-HITEMP140X2-TD-PT-1 shown smaller than actual size.

Computer Interface: OM-CP-IFC400 USB docking station or OM-CP-IFC406 multiplexer interface required; 125,000 baud

Software: Windows XP SP3/Vista/7 and 8 (32-bit and 64-bit)

Operating Environment: -40 to 140°C (-40 to 284°F), 0 to 100% RH, 0.002 to 100 psia

IP Rating: IP68

Dimensions (Body): 48 H x 24.6 mm dia (1.89 x 0.97")

Dimensions (Probe):

Rigid Ambient Probe (All Models): 51 L x 3.2 mm dia (4.8 mm transitional dia); 2.0 x 0.125" (0.188" transitional dia)

OM-CP-HITEMP140X2-TD-PT-1 Stainless Steel Bendable Probe:

Probe Tip: 42 L x 3.2 mm dia (1.7 x 0.125")

Bendable Portion: 559 L x 1.6 mm dia (22 x 0.062")

OM-CP-HITEMP140X2-TD-PT-5 Stainless Steel Bendable Probe:

Probe Tip: 121 L x 3.2 mm dia (4.8 x 0.125") with 25 L x 4.8 mm dia (1 x 0.188") handle

Bendable Portion: 559 L x 1.6 mm dia (22 x 0.062")

OM-CP-HITEMP140X2-TD-FP-72 Flexible Probe: 1829 L x 2.5 mm dia (72 x 0.1")

Weight:

OM-CP-HITEMP140X2-TD-PT: 85 g (3.0 oz)

OM-CP-HITEMP140X2-TD-FP: 100 g (3.5 oz)

Materials:

Body: 316 stainless steel, PEEK

Bendable Probe: 316 stainless steel

OM-CP-IFC406 multiplexer data logger interface, shown smaller than actual size (data loggers sold separately).

OM-CP-MULTIMOUNT-Z bracket, sold separately.

OM-CP-MICRODISC surface temperature probe attachment (shown with probe inserted, sold separately)

To Order

Model No.	Description
OM-CP-HITEMP140X2-TD-FP-72	High temperature data logger with one 5.1 cm (2") rigid ambient probe and one 183 cm (72") flexible probe
OM-CP-HITEMP140X2-TD-FP-72-CERT	High temperature data logger with one 5.1 cm (2") rigid ambient probe and one 183 cm (72") flexible probe and NIST calibration certificate
OM-CP-HITEMP140X2-TD-PT-1	High temperature data logger with one 5.1 cm (2") rigid ambient probe and one 61 cm (24") bendable stainless steel probe with 2.5 cm (1") tip
OM-CP-HITEMP140X2-TD-PT-1-CERT	High temperature data logger with one 5.1 cm (2") rigid ambient probe and one 61 cm (24") bendable stainless steel probe with 2.5 cm (1") tip and NIST calibration certificate
OM-CP-HITEMP140X2-TD-PT-5	High temperature data logger with one 5.1 cm (2") rigid ambient probe and one 61 cm (24") bendable stainless steel probe with 12.7 cm (5") tip
OM-CP-HITEMP140X2-TD-PT-5-CERT	High temperature data logger with one 5.1 cm (2") rigid ambient probe and one 61 cm (24") bendable stainless steel probe with 12.7 cm (5") tip and NIST calibration certificate
OM-CP-IFC400	Docking station (for single data logger) with USB cable, software and manual
OM-CP-IFC406	Multiplexer data logger interface (accepts up to 6 data loggers) with USB cable, software and manual
OM-CP-BAT110	Replacement 3.6 V high temperature lithium battery
OM-CP-MULTIMOUNT-Z	Mount/stand for OM-CP-HITEMP140 series data loggers
OM-CP-MICRODISC	Surface temperature probe attachment
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)

Comes complete with 3.6V lithium battery. Operator's manual and USB interface cable are included with the OM-CP-IFC400 software/cable package and OM-CP-IFC406 multiplexer. OM-CP-IFC400 required for data logger operation. Both models sold separately.

***Ordering Example: OM-CP-HITEMP140X2-TD-FP-72-CERT** high temperature data logger with one 5.1 cm (2") rigid ambient probe and one 183 cm (72") flexible probe and NIST calibration certificate.*

Multiplexer Interface

For OM-CP-HITEMP140, OM-CP-HITEMP140-PT and OM-CP-PR140 Data Loggers

OM-CP-IFC406

5 YEAR WARRANTY

- **Compatible with OM-CP-HITEMP140, OM-CP-HITEMP140-PT and OM-CP-PR140 Data Loggers**
- **Allows up to Six Data Loggers to be Connected Into One Interface**
- **Up to Three OM-CP-IFC406 Multiplexers Can be Daisy-Chained Together to Communicate With a Total of 18 Data Loggers Through One USB Port**
- **LED Indicators for Power and Status**

The OM-CP-IFC406 is a multiplexer data logger interface for compatible OM-CP Series data loggers. The OM-CP-IFC406 allows up to six data loggers to be connected into one interface. Up to three OM-CP-IFC406 units may be daisy-chained together to communicate with a total of 18 data loggers through one USB port. To connect multiple OM-CP-IFC406 multiplexer interfaces together, simply join the units side by side, making sure the spring pin contacts are connected and magnetically joined.

The OM-CP-IFC406 multiplexer data logger interface is compatible with the following OM-CP Series data loggers:

- OM-CP-HITEMP140
- OM-CP-HITEMP140-PT
- OM-CP-PR140

Once the OM-CP-IFC406 multiplexer data logger interface is operational, simply start the OM-CP Series data logger software. Data loggers installed in the multiplexer will then appear in the list of available devices in the software. Simply select the device you want to work with from the list and choose your desired start method. Data retrieval is also simple. The software converts your PC into a real time strip chart recorder. Data can be printed in graphical or tabular format and can also be exported to a text or Microsoft® Excel file.

OM-CP-IFC406 shown smaller than actual size (data loggers sold separately).

Software (included) shows list of available data loggers.

SPECIFICATIONS

Maximum Number of Data Loggers:
Each OM-CP-IFC406 multiplexer handles up to 6 data loggers; Up to 3 OM-CP-IFC406 multiplexers can be daisy-chained for a total of 18 data loggers that can be handled through one USB port

LED Functionality:

Blue LED: Indicates unit has power

Amber LED: Indicates channel is busy or searching for a device

Green LED: Indicates operation successful or complete

Operating Environment: 10 to 35°C (50 to 95°F); 0 to 95% RH non-condensing

Software: XP SP3/Vista/7 and 8 (32 and 64-bit)
Baud Rate: 125,000 baud
Connection Type: USB to PC
Power: Unit is powered from the USB port of the PC
Weight: 750 g (1.65 lb)
Material: 6061 Aluminum (PTFE impregnated hard anodized coating), ABS plastic
Enclosure Dimensions: 24.13 L x 4.95 W x 4.45 cm H (9.5 x 1.95 x 1.75")

To Order

Model No.	Description
OM-CP-IFC406	Multiplexer interface for OM-CP-HITEMP140, OM-CP-HITEMP140-PT and OM-CP-PR140 data loggers with 1.8 m (6') USB interface cable and software

Comes complete with 1.8 m (6') USB cable and software.

***Ordering Example: OM-CP-IFC406** multiplexer data logger interface (accepts up to 6 data loggers) with 1.8 m (6') USB cable and software.*

High Temperature Pressure Data Logger
Part of the NOMAD® Family

OM-CP-PR140

5 YEAR WARRANTY NIST CE

Optional

- **Operates up to 140°C (284°F)**
- **Submersible (IP68)**
- **User Replaceable Battery**
- **Rugged**
- **Programmable Start Time**
- **Software Battery Life Indicator**
- **Flush Mount (OM-CP-PR140) or ⅛ NPT Pressure Port (OM-CP-PR140-NPT)**

The OM-CP-PR140 is a pressure data logger designed for use in autoclave validation and mapping. This rugged device can withstand temperatures up to 140°C (284°F) and is completely submersible (IP68).

The OM-CP-PR140 is built with a precision stainless steel pressure gauge. The device has an accuracy of ±0.03 Bar (±0.435 psi), which can be achieved over a wide temperature range, from 20 to 140°C (68 to 284°F).

The OM-CP-PR140 can be programmed to take readings as often as once per second (1 Hz), and has non-volatile memory that can store up to 32,700 measurements.

The OM-CP-PR140-LUERFITTING is a ⅛ NPT to female luer lock adaptor. It can be used with the OM-CP-PR140-NPT data logger. The OM-CP-PR140-LUERFITTING can easily be screwed into the ⅛ NPT female port on the data logger. This rugged adaptor is made of 316 stainless steel construction and can withstand harsh environments such as steam sterilization cycles.

The OM-CP-IFC406 multiplexer data logger interface allows for multiple devices to be connected into one interface. Each OM-CP-IFC406 allows for 6 data loggers to be connected. Up to 3 OM-CP-IFC406 units may be daisy-chained together to communicate with a total of 18 devices through 1 USB port. To connect multiple OM-CP-IFC406 interfaces together, simply join the units side by side, making sure the spring pin contacts are connected and magnetically joined.

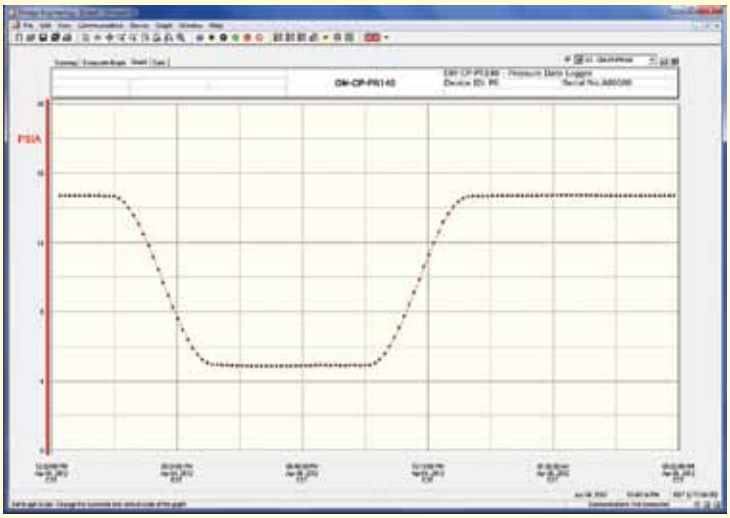
Simply place the OM-CP-PR140 in the OM-CP-IFC400 docking station or OM-CP-IFC406 multiplexer, connect to an available USB port on your computer, and the device can be started, stopped or downloaded using our user friendly software. Graphical, tabular and summary data is provided for analysis and can be viewed in psia, mmHg, bar, Torr and kPa. The data can also be automatically exported to Excel® for further calculations. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged.

OM-CP-PR140-NPT shown larger than actual size.

OM-CP-PR140 data logger and OM-CP-IFC400 docking station shown larger than actual size.

OM-CP-IFC406 multiplexer data logger interface, shown smaller than actual size.

OM-CP-PR140-LUERFITTING, ⅛ NPT to female luer lock adaptor (optional). Shown larger than actual size.



OM-CP-IFC400, Windows® software displays data in graphical or tabular format.

OM-CP-PR140-NPT shown larger than actual size.

Specifications

OM-CP-PR140 Data Logger

Pressure Sensor: Semiconductor strain gauge

Pressure Range: 0 to 5 bar (0 to 72.5 psia)

Pressure Resolution: 0.1 mBar (0.0015 psia)

Calibrated Accuracy: ±0.03 bar (±0.435 psi) (20 to 140°C/68 to 284°F)

Pressure Response Time: 0.1 ms (10 to 90% FSR)

Repeatability: ±0.5% FSR; ±0.2% typical

Reading Rate: 1 second to 1 every 24 hours

Memory: 32,700 readings; software configurable memory wrap

Start Modes: Software programmable immediate start or delay start up to six months

Real Time Recording: May be used with PC to monitor and record data in real time

Calibration: Digital calibration through software

Calibration Interval: Monthly calibration recommended

Data Format: psia, bar, mbar, atm, Torr, Pa, kPa, MPa, mmHg, inHg, inH_2O, mH_2O, foot, meter

Battery Type: 3.6V lithium battery included; user replaceable

Battery Life: 2 years typical

Time Accuracy: ±1 minute/month at 20°C

Computer Interface: USB (OM-CP-IFC400 interface cable required); 125,000 baud

Software: XP SP3/Vista/7 and 8 (32- and 64-bit)

Operating Environment: -20 to 140°C (-4 to 284°F) 0 to 100% RH, may be used above 60°C (140°F) for up to 8 hrs per 24 hr period

Dimensions:

OM-CP-PR140: 50.8 L x 25.4 mm dia. (2.0 x 1.0")

OM-CP-PR140-NPT: 58.2 L x 25.4 mm dia. (2.3 x 1.0")

Weight: 85 g (3 oz)

Enclosure: Stainless Steel

OM-CP-IFC406 Multiplexer

Operating Environment: 10 to 35°C (50 to 95°F); 0 to 95% RH non-condensing

Baud Rate: 125,000 baud

Connection Type: USB (to PC)

Weight: 750 g (1.65 lb)

Material: 6061 Aluminum (PTFE impregnated hard anodize coating), ABS plastic

Enclosure Dimensions: 24.13 L x 4.95 W x 4.45 cm H (9.5 x 1.95 x 1.75")

Maximum Input Voltage: 6V

To Order

Model No.	Description
OM-CP-PR140	High temperature pressure data logger, flush mount
OM-CP-PR140-CERT	High temperature pressure data logger, flush mount, and NIST calibration certificate
OM-CP-PR140-NPT	High temperature pressure data logger (⅛ NPT pressure port)
OM-CP-PR140-NPT-CERT	High temperature pressure data logger (⅛ NPT pressure port) and NIST calibration certificate
OM-CP-PR140-LUERFITTING	⅛ NPT to female luer lock adaptor
OM-CP-IFC400	Docking station (for single data logger) with USB cable, software and manual
OM-CP-IFC406	Multiplexer data logger interface (accepts up to 6 data loggers) with USB cable, software and manual
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-BAT110	Replacement 3.6V high temperature lithium battery

Comes complete with 3.6V lithium battery. Operator's manual and USB interface cable are included with the OM-CP-IFC400 software/cable package (required for data logger operation, sold separately).

***Ordering Example: OM-CP-PR140-CERT**, high temperature pressure data logger (flush mount) with NIST calibration certificate.*

High Temperature and Pressure Data Logger

OM-CP-PRTEMP140 Series

5 YEAR WARRANTY NIST CE RoHS
Optional

- **Operates up to 140°C (284°F)**
- **Submersible (IP68)**
- **User Replaceable Battery**
- **Rugged Stainless Steel Body**
- **Programmable Start Time**
- **Software Battery Life Indicator**
- **Flush Mount (OM-CP-PRTEMP140-LVL) or ⅛ NPT Pressure Port (OM-CP-PRTEMP140-NPT)**

The OM-CP-PRTEMP140 is a high temperature and pressure data logger all in one, created specifically for use in autoclave validation, mapping studies and pressurized processes. Featuring the familiar body style of the OM-CP-HITEMP140 Series of data loggers and made of rugged stainless steel, this dual purpose device is less than 64 mm (2.5") in length, allowing it to fit discretely inside small spaces.

The OM-CP-PRTEMP140 data logger downloads temperature and pressure data simultaneously and displays the combined results in a single graph, simplifying data collection and analysis and eliminating unnecessary steps for the user. This data logger is able to measure and record temperatures from -20 to 140°C (-4 to 284°F), and pressure from 0 bar to 5 bar, accommodating a wide range of applications even in the harshest conditions. The memory capacity on the OM-CP-PRTEMP140 stores up to 32,700 time and date stamped readings and will retain data even if the battery becomes discharged.

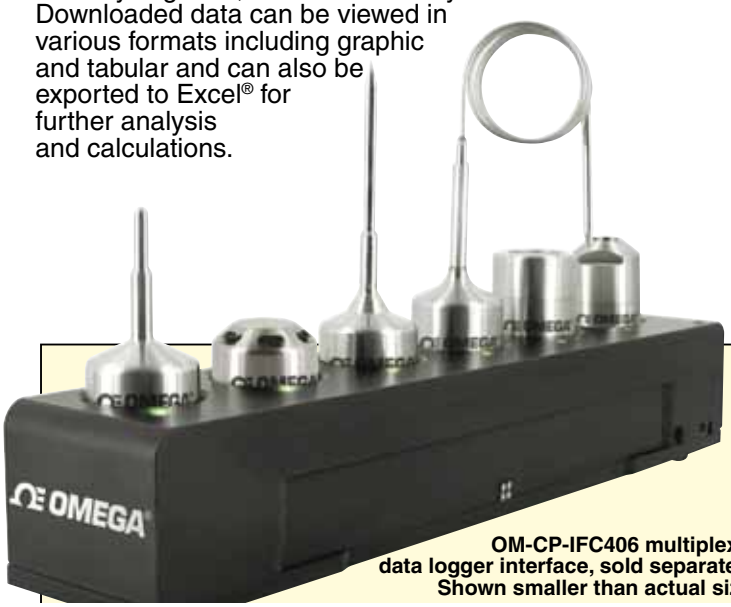
The OM-CP-PRTEMP140 utilizes the latest software, making the entire process from starting the device to analyzing data, efficient and easy for the user. Downloaded data can be viewed in various formats including graphic and tabular and can also be exported to Excel® for further analysis and calculations.

OM-CP-PRTEMP140-LVL flush top.

All models shown larger than actual size.

OM-CP-PRTEMP140-NPT ⅛ NPT pressure port.

OM-CP-PRTEMP140-LVL (flush top) with OM-CP-IFC400 docking station.



OM-CP-IFC406 multiplexer data logger interface, sold separately. Shown smaller than actual size.

OM-CP-PR140-LUERFITTING ⅛ NPT to female luer lock adaptor (optional). Shown larger than actual size.

SPECIFICATIONS

PRESSURE

Sensor: Strain gauge
Range: 0 to 5 bar
Resolution: 0.0001 bar
Calibrated Accuracy: ±0.03 bar (20 to 140°C)

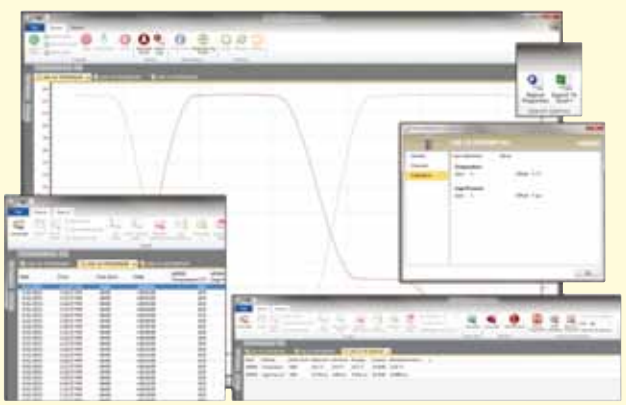
TEMPERATURE

Sensor: Resistance temperature detector (RTD)
Range: -20 to 140°C (-4 to 284°F)
Resolution: 0.01°C
Calibrated Accuracy: ±0.1°C (20 to 140°C)

GENERAL

Start Modes:
- Immediate start
- Delay start up to 18 months in advance

Stop Modes: Manual or timed (specific date and time)
Real Time Recording: May be used with PC to monitor and record data in real time
Memory: 32,767 readings
Password Protection: An optional password may be programmed into the device to restrict access to configuration options. Data may be read without the password
Reading Rate: 1 reading every second up to 1 reading every 24 hours
Calibration: Digital calibration through software
Calibration Date: Automatically recorded within device
Memory Wrap: Yes
Data Format: °C, °F, °R, K, bar, mbar, PSI, inHg, mmHg, atm, Torr, Pa, kPa, MPa
Battery Life: 2 years typical (1 minute reading rate)
Battery Type: 3.6V high-temperature lithium battery included; user replaceable
Time Accuracy: ±1 min/month @ 25°C
Extended Operation: ±20 mins/month at 140°C
Computer Interface: OM-CP-IFC400 USB docking station or OM-CP-IFC406 multiplexer interface required; 125,000 baud
Software: Windows® XP SP3/Vista/7 and 8 (32- and 64-bit)
Operating Environment: -20 to 140°C (-4 to 284°F), 0 to 100% RH, 0.002 to 100 PSIA
Dimensions:
OM-CP-PRTEMP140-LVL (Flush Top): 50.2 L x 24.6 mm dia (1.98 x 0.97")
OM-CP-PRTEMP140-NPT (NPT Top): 58.2 L x 24.6 mm dia (2.3 x 0.97")
Weight:
OM-CP-PRTEMP140-LVL (Flush Top): 90 g (3.2 oz)
OM-CP-PRTEMP140-NPT (NPT Top): 100 g (3.5 oz)
Material: 316 stainless steel
IP Rating: IP68



OM-CP-IFC400 Windows® software displays data in graphical or tabular format.

OM-CP-PRTEMP140-LVL (flush top) shown larger than actual size.

To Order

Model No.	Description
OM-CP-PRTEMP140-LVL	High temperature and pressure data logger, flush top
OM-CP-PRTEMP140-LVL-CERT	High temperature and pressure data logger, flush top, and NIST calibration certificate
OM-CP-PRTEMP140-NPT	High temperature and pressure data logger (⅛ NPT pressure port)
OM-CP-PRTEMP140-NPT-CERT	High temperature and pressure data logger (⅛ NPT pressure port) and NIST calibration certificate
OM-CP-PR140-LUERFITTING	⅛ NPT to female luer lock adaptor
OM-CP-IFC400	Docking station (for single data logger) with USB cable, software and manual
OM-CP-IFC406	Multiplexer data logger interface (accepts up to 6 data loggers) with USB cable, software and manual
OM-CP-BAT110	Replacement 3.6V high temperature lithium battery
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)

Comes complete with 3.6V lithium battery. Operator's manual and USB interface cable are included with the OM-CP-IFC400 software/cable package (required for data logger operation, sold separately).

Ordering Example: OM-CP-PRTEMP140-LVL-CERT, *high temperature and pressure data logger (flush mount) with NIST calibration certificate.*

OM-CP-TEMP1000IS-A2
Intrinsically Safe Temperature Data Logger

800898

- **Certified Intrinsically Safe: Class 1 Division 1 Group ABCD, Class 1 Division 2 Group ABCD, Temperature Class: T4A, CAN/CSA-C22.2 No. 60079-0:15, CAN/CSA-C22.2 No. 60079-11:14, FM3600 and FM3610**
- **Programmable Start Time**
- **316 Stainless Steel Enclosure**
- **User-friendly**
- **Low Cost**
- **CE Compliant**
- **NIST Traceable Certificate Included**

The OM-CP-TEMP1000IS-A2 is an Intrinsically Safe temperature data logger. It carries hazardous location, intrinsically safe certification in accordance with the latest issue of FM3600, FM3610. This certification makes the device ideal for EtO Sterilization, environmental studies, and numerous other hostile environment applications.

The device can be started and stopped directly from your computer and its small, sleek size allows it to fit almost anywhere. The OM-CP-TEMP1000IS-A2 makes data retrieval quick and easy. Simply insert the device into the OM-CP-IFC400 or the OM-CP-IFC406 USB docking station (sold separately) and our user-friendly software does the rest. The small size of the OM-CP-TEMP1000IS-A2, allows it to be placed in remote or hard to reach locations. The device features a battery life indicator allowing users to easily identify low voltage and change batteries when required. This feature maximizes the use of your battery life and is a cost saving efficiency.

The OM-CP Data Logger Software is a powerful, analytic tool. Data can be viewed in graphical or tabular formats and summary and statistics views are available for further analysis.

Specifications

TEMPERATURE	
Temperature Sensor	Resistance Temperature Detector (RTD)
Temperature Range	-40 °C to +80 °C (-40 °F to +176 °F)
Temperature Resolution	0.01 °C (0.018 °F)
Calibrated Accuracy	±0.5 °C (0 °C to ±50 °C) ±0.9 °F (32 °F to 122 °F)

GENERAL	
Memory	65,536 Readings
Start Modes	Software programmable immediate start or delay start, up to 24 months in advance
Real Time Recording	May be used with PC to monitor and record data in real time
Reading Rate	1 reading every second up to 1 reading every 24 hours
Calibration	Digital calibration through software
Calibration Date	Automatically recorded within device
Battery Type	Tadiran TL-2150 3.6V lithium battery included, user replaceable in a non-hazardous location
Battery Life	2 years typical at 15 minute reading rate
Data Format	Date and time stamped °C, °F, K, °R
Time Accuracy	10 seconds / month 0 °C to 50 °C
Computer Interface	OM-CP-IFC400 or OM-CP-IFC406

Specifications

Operating System Compatibility	Windows XP SP3/7/8/10
Software Compatibility	Standard Software version 4.2.19.1 or later Secure Software version 4.2.18.0 or later
Operating Environment	-40 °C to +80 °C (-40 °F to +176 °F), 0 %RH to 100 %RH (case properly sealed)
Dimensions	1 inch probe: 2.66 in x 0.97 in dia. (67.6 mm x 24.6 mm dia.) 2 inch probe: 3.94 in x 0.97 in dia. (100.1 mm x 24.6 mm dia.) 5.25 inch probe: 7.19 in x 0.97 in dia. (182.6 mm x 24.6 mm dia.) 7 inch probe: 8.94 in x 0.97 in dia. (227.1 mm x 24.6 mm dia.)
Weight	1 inch probe: 2.1 oz (60 g) 2 inch probe: 2.4 oz (68 g) 5.25 inch probe: 2.7 oz (76 g) 7 inch probe: 2.8 oz (78 g)
Enclosure	316 Stainless Steel/Radel
IP Rating	Not Rated **Caution:** Do not submerge this product to retain IS rating
Approvals	CE FM Class 3600, Rev. Jan 2018 FM Class 3610, Rev. Jan 2018 CAN/CSA-C22.2 No. 60079-0:15 CAN/CSA-C22.2 No. 60079-11:14

BATTERY WARNING: BATTERY MAY LEAK, FLAME OR EXPLODE IF DISASSEMBLED, SHORTED, CHARGED, CONNECTED TOGETHER, MIXED WITH USED OR OTHER BATTERIES, EXPOSED TO FIRE OR HIGH TEMPERATURE. DISCARD USED BATTERY PROMPTLY. KEEP OUT OF REACH OF CHILDREN.

To Order

P/N	Description
OM-CP-TEMP1000IS-A2	Intrinsically Safe Temperature Data Logger with 1 inch probe
OM-CP-IFC400	Docking station with USB cable
OM-CP-IFC406	6 Port, Multiplexer docking station with USB cable
OM-CP-BAT113	Replacement 3.6 V lithium battery

Autoclave Validation Systems
Part of the NOMAD® Family

OM-CP-AVS140 Series

5 YEAR WARRANTY

- **Complete Systems for Autoclave Validation**
- **Enables Compliance with FDA 21 CFR Part 11**
- **NIST Traceable Calibration Included**
- **OM-CP-AVS140-1 for Temperature Monitoring**
- **OM-CP-AVS140-6 for Temperature and Pressure Monitoring**

OM-CP-AVS140-1 autoclave temperature validation system.

The OM-CP-AVS140-1 and OM-CP-AVS140-6 are complete systems used to perform autoclave validations. The OM-CP-AVS140-1 system for autoclave temperature monitoring consists of a NIST traceable OM-CP-HITEMP-140-1 temperature data logger, an OM-CP-IFC400 USB docking station and FDA 21 CFR part 11 secure software. For larger size autoclaves or mapping projects, the OM-CP-AVS140-6 is a system for autoclave temperature and pressure monitoring that includes five OM-CP-HITEMP-140-1 temperature data loggers, one OM-CP-PR140 pressure data logger, an OM-CP-IFC406 multiplexer interface (allows up to 6 data loggers to be interfaced to a single USB port on the computer) and the secure software.

OM-CP-AVS140-6 autoclave temperature and pressure validation system.

The secure software aids users in compliance with FDA 21 CFR Part 11 requirements. The software ensures standards in which electronic files are considered equivalent to paper records, saving time and effort. The secure software contains criteria such as electronic signatures, access codes, secure data files and an audit trail which meets the requirements of 21 CFR Part 11 and helps provide data integrity. IQ/OQ/PQ (Installation Qualification/Operational Qualification/Performance Qualification) protocols are included to validate that the software has been installed and is operating correctly. The layout of the secure software is similar to the OM-CP Series Data Logger standard software, allowing users to easily learn the additional features. The Windows® based software package allows the user to effortlessly collect, display and analyze data. A variety of powerful tools provide the ability to examine, export, and print professional looking data with just a click of the mouse.

SPECIFICATIONS

OM-CP-HITEMP140-1 Temperature Data Logger with 27 mm (1.1") Probe

Temperature Sensor: 100Ω Platinum RTD

Temperature Range (Body): -40 to 140°C (-40 to 284°F)

Temperature Measurement Range (Probe): -200 to 260°C (-328 to 500°F)

Temperature Resolution: 0.01°C (0.02°F)

Calibrated Accuracy: ±0.1°C (±0.18°F) [20 to 140°C (68 to 284°F)]

Battery Life: 1 year typical [1 minute reading rate at 25°C (77°F)]

Data Format: Date and time stamped °C, °F, K, °R

Time Accuracy: ±1 minute/month at 20 to 30°C (68 to 86°F) (stand alone mode)

Operating Environment: -40 to 140°C (-40 to 284°F), 0 to 100% RH

FDA 21 CFR part 11 secure software included.

OM-CP-PR140 pressure data logger shown actual size.

OM-CP-HITEMP140-1 temperature data logger shown smaller than actual size.

Dimensions
Body: 40 H x 25 mm D (1.6 x 0.97")
Probe: 27 L x 3.2 mm dia (4.8 mm transitional dia) [1.1 x 0.125" dia (0.188" transitional dia)]
Weight: 120 g (4.2 oz)
Material: 316 stainless steel

OM-CP-PR140 PRESSURE DATA LOGGER
Pressure Sensor: Semiconductor strain gauge
Pressure Range: 0 to 5 bar (0 to 72.5 psia)
Pressure Resolution: 0.1 mBar (0.0015 psia)
Calibrated Accuracy: ±0.03 Bar (±0.435 psi) (20 to 140ºC/68 to 284ºF)
Pressure Response Time: 0.1 ms (10 to 90% FSR)
Repeatability: ±0.5% FSR; ±0.2% typical
Data Format: psia, bar, mbar, atm, Torr, Pa, kPa, MPa, mmHg, inHg, in$H_2$0, m$H_2$0, ft, m
Battery Life: 2 years typical
Time Accuracy: ±1 minute/month at 20ºC
Operating Environment: -20 to 140ºC, (-4 to 284ºF) 0 to 100% RH, may be used above 60ºC (140ºF) for up to 8 hrs per 24 hr period
Dimensions: 50.8 L x 25.4 mm dia. (2.0 x 1.0")
Weight: 85 g (3 oz)
Enclosure: Stainless steel

COMMON SPECIFICATIONS (OM-CP-HITEMP140-1 and OM-CP-PR140)
Real Time Recording: May be used with PC to monitor and record data in real time
Memory: 32,700 readings; software configurable memory wrap
Reading Rate: One second up to once every 24 hours
Calibration: Digital calibration through software
Calibration Date: Automatically recorded within device
Battery Type: 3.6V high-temperature lithium battery (included)
Software: XP SP3/Vista/7 and 8 (32-bit and 64-bit)
Computer Interface: OM-CP-IFC400 USB docking station or OM-CP-IFC406 multiplexer interface required, 125,000 baud

To Order

Model No.	Description
OM-CP-AVS140-1	Autoclave temperature validation system: includes one (1) OM-CP-HITEMP-140-1 temperature data logger with NIST calibration certificate, OM-CP-IFC400 USB docking station and FDA 21 CFR Part 11 Secure Software with IQ/OQ/PQ validation protocols
OM-CP-AVS140-6	Autoclave temperature and pressure validation system: includes five (5) OM-CP-HITEMP-140-1 temperature data loggers with NIST calibration certificates, one (1) OM-CP-PR140 pressure data logger with NIST calibration certificate, OM-CP-IFC406 USB multiplexer interface and FDA 21 CFR Part 11 Secure Software with IQ/OQ/PQ validation protocols

OM-CP-HITEMP140-1 *temperature data loggers and* ***OM-CP-PR140*** *pressure data loggers come complete with 3.6V high temperature lithium battery.*
Ordering Example: OM-CP-AVS140-1, *autoclave temperature validation system.*