



High Temperature Dual Channel Data Loggers With Ambient and Remote Temperature Probes

OM-CP-HITEMP140X2-TD Series



- ✓ 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

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.



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

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-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)

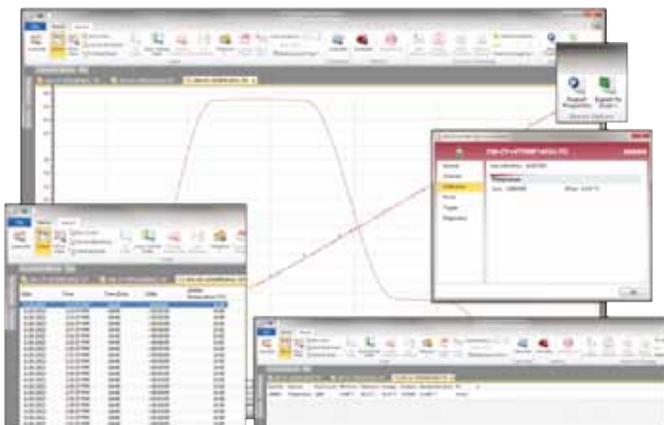
OM-CP-HITEMP140X2-TD-FP: 100 g (3.5 oz)

Materials:

Body: 316 stainless steel, PEEK

Bendable Probe: 316 stainless steel

Flexible Probe: PFA insulated cable



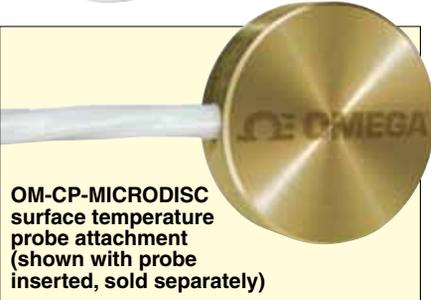
OM-CP-IFC400, Windows® software displays data in graphical or tabular format.



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.