High Temperature Dual Channel Data Loggers

With Two Remote Temperature Probes

NEW

OM-CP-HITEMP140X2-FP Series

5 YEAR WARRANTY | NIST Optional | C E | RoHS

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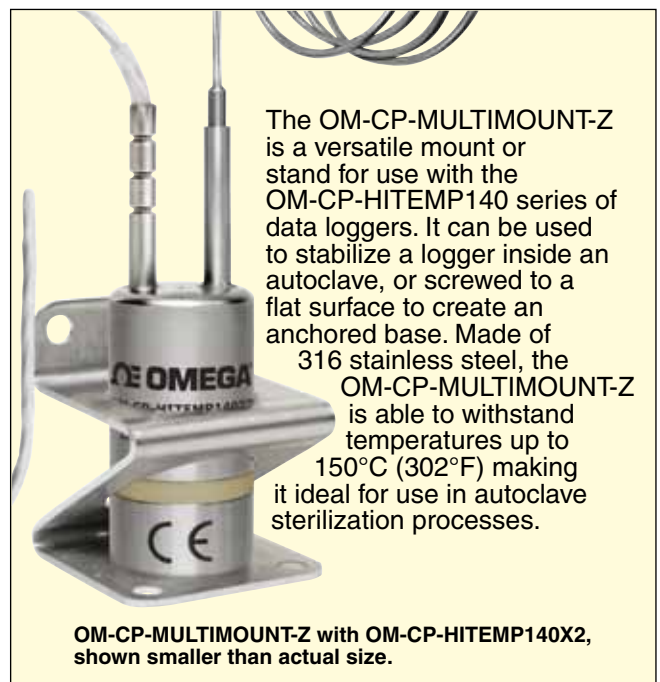
OM-CP-HITEMP140X2-FP-72-PT-5

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.
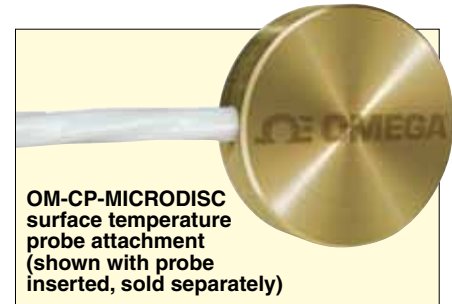

The OM-CP-MULTIMOUNT-Z is a versatile mount or stand for use with the OM-CP-HITEMP140 series of data loggers. It can be used to stabilize a logger inside an autoclave, or screwed to a flat surface to create an anchored base. Made of 316 stainless steel, the OM-CP-MULTIMOUNT-Z is able to withstand temperatures 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.*

4