

High Temperature and Pressure Data Logger



OM-CP-PRTEMP140 Series



- ✓ 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 1/8" 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.

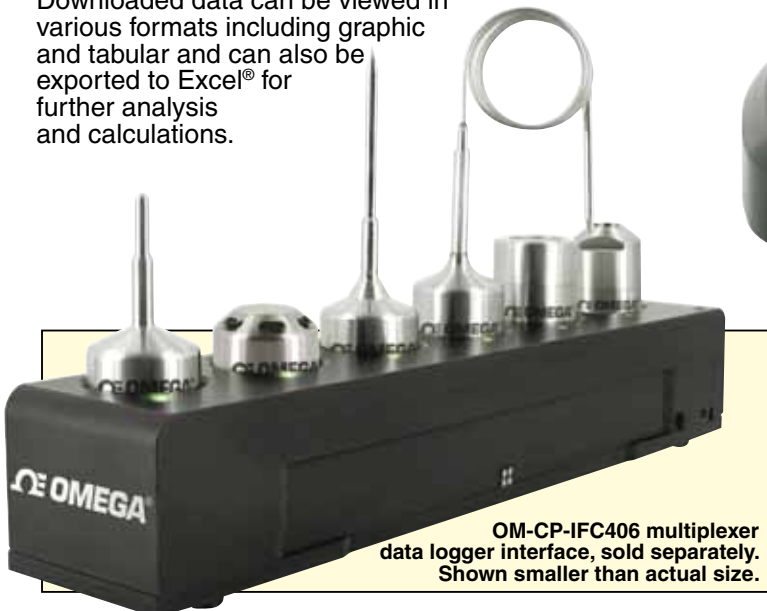
All models shown larger than actual size.



OM-CP-PRTEMP140-NPT 1/8" 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 1/8" 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")

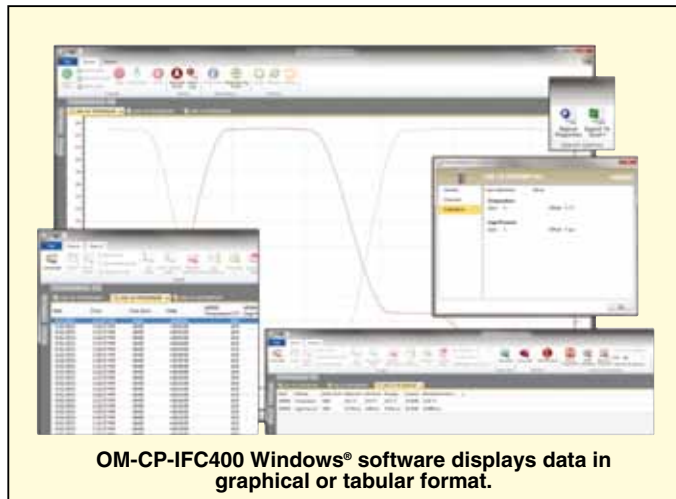
Weight:

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 (1/8 NPT pressure port) |
| OM-CP-PRTEMP140-NPT-CERT | High temperature and pressure data logger (1/8 NPT pressure port) and NIST calibration certificate |
| OM-CP-PR140-LUERFITTING | 1/8 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.