

High Temperature Pressure Data Logger Part of the NOMAD® Family

OM-CP-PR140



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 1/8 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.

Simply place the OM-CP-PR140 in the OM-CP-IFC400 docking station, 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.

Specifications

Pressure Sensor: Semiconductor strain gauge

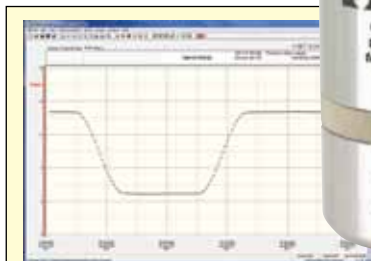
Pressure Range: 0 to 5 bar (0 to 72.5 psia)

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)

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



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

Repeatability: $\pm 0.5\%$ FSR; $\pm 0.2\%$ 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, inH₂O, mH₂O, foot, meter

Battery Type: 3.6V lithium battery included; user replaceable

Battery Life: 2 years typical

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



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

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

To Order Visit omega.com/om-cp-pr140 for Pricing and Details

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 (1/8 NPT pressure port)
OM-CP-PR140-NPT-CERT	High temperature pressure data logger (1/8 NPT pressure port) and NIST calibration certificate
OM-CP-IFC400	Docking station with USB cable, software and manual
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.

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