

Pressure and Temperature Data Loggers Part of the NOMAD® Family

OM-CP-PRTEMP101 and
OM-CP-PRTEMP110
Starts at



- ✓ Programmable Start Time
- ✓ Measures and Records Pressure and Temperature
- ✓ Miniature Size
- ✓ User Calibration through Software
- ✓ Real Time Operation

The OM-PRTEMP101 and OM-CP-PRTEMP110 are miniature, battery powered, stand-alone, temperature and pressure data loggers. These data loggers are a major leap forward in both size and performance. Its real time clock ensures that all data is time and date stamped. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged.

Its small size allows it to fit almost anywhere. Data retrieval is simple. Plug it into an empty USB port and our easy-to-use software does the rest. The software converts your PC into a real time strip chart recorder. Data can be printed in graphical or tabular format and can be exported to a text or Microsoft Excel® file.

Specifications

Temperature Sensor:

Semiconductor

Temperature Accuracy:

±0.5°C (0 to 50°C)

Temperature Resolution:

0.1°C
-40 to 80°C (-40 to 176°F)

Pressure Sensor:

Strain gage

Pressure Accuracy:

1% FSR at 25°C

Pressure Resolution:

0.002 psia

Pressure Range:

0 to 30 psia

Temperature Effect on Pressure

Span/Offset: Relative to 25°C

going from 0 to 50°C; ±2.0% max,

±0.4% typical

Temperature/Pressure

Calibration: Digital calibration is

available through software

Calibration Date: Automatically

recorded within device to alert user

when calibration is required

Recording Interval: 2 sec to 12 hr

selectable through software

Memory:

OM-CP-PRTEMP101:

8192 rdgs/channel

OM-CP-PRTEMP110:

16,383 rdgs/channel

Start Time: Start time and date are

programmable through software

Real Time Recording: Device may

be used with PC to monitor and

record data in real time



OM-CP-PRTEMP101.



OM-CP-PRTEMP110.

Both models shown
larger than actual size.

Red Visual Indicator: LED flashes at selected reading rate or at 1 sec rate under alarm condition

Power: 3.6V lithium battery (included)

Battery Life:

OM-CP-PRTEMP101:

1 year at 1 min reading rate

OM-CP-PRTEMP110:

10 years at 15 min reading rate

Time Accuracy: ±1 minute/month

when RS232 port is not in use

Data Format: Date and time

stamped, °C, °F, °K, °R, psia, in Hg,

mmH, bar, atm, Torr, Pa, kPa, MPa

Weight:

OM-CP-PRTEMP101: 30 g (1 oz)

OM-CP-PRTEMP110: 60 g (2 oz)

Computer Interface: PC serial,

RS232C COM or USB (interface

cable required)

Communications:

OM-CP-PRTEMP101: 2400 baud

OM-CP-PRTEMP110: 57600 baud

† Refer to next page for NIST calibration

ordering information.

Software:

Windows XP SP3/VISTA and 7
(32-bit and 64-bit)

Operating Environment:

-40 to 80°C (-40 to 176°F)
0 to 95% RH non-condensing

Dimensions:

OM-CP-PRTEMP101:

36 H x 56 W x 16 mm D
(1.4 x 2.2 x 0.6")

OM-CP-PRTEMP110:

43 H x 43 W x 20 mm D
(1.7 x 2.7 x 0.8")

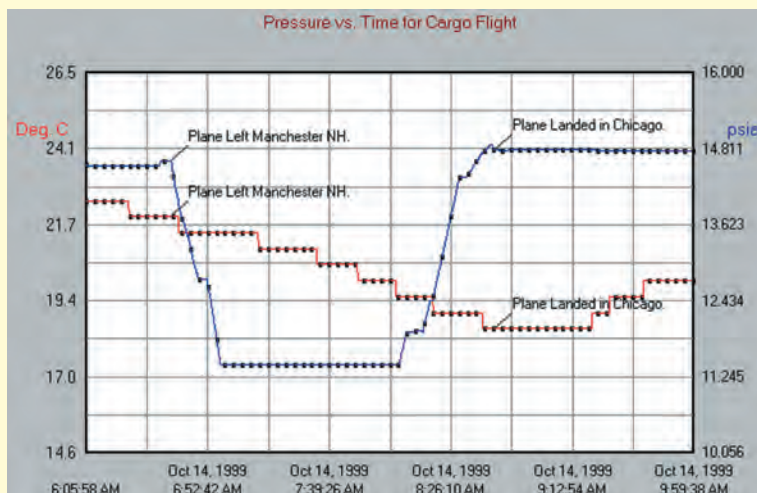


OM-CP-PRTEMP101.



OM-CP-PRTEMP110.

Both models shown actual size.



Reading No.	Temperature Deg. C	Pressure psia	Date and Time	Annotation
2562	18.5	14.801	Oct 14, 1999 08:43:08 AM	
2563	18.5	14.801	Oct 14, 1999 08:43:18 AM	Plane Landed in Chicago.
2564	18.5	14.803	Oct 14, 1999 08:43:28 AM	
2565	18.5	14.803	Oct 14, 1999 08:43:38 AM	
2566	18.5	14.807	Oct 14, 1999 08:43:48 AM	
2567	18.5	14.802	Oct 14, 1999 08:43:58 AM	
2568	18.5	14.799	Oct 14, 1999 08:44:08 AM	
2569	18.5	14.801	Oct 14, 1999 08:44:18 AM	
2570	18.5	14.790	Oct 14, 1999 08:44:28 AM	
2571	18.5	14.788	Oct 14, 1999 08:44:38 AM	
2572	18.5	14.788	Oct 14, 1999 08:44:48 AM	
2573	18.5	14.789	Oct 14, 1999 08:44:58 AM	
2574	18.5	14.789	Oct 14, 1999 08:45:08 AM	
2575	18.5	14.794	Oct 14, 1999 08:45:18 AM	
2576	18.5	14.794	Oct 14, 1999 08:45:28 AM	
2577	18.5	14.789	Oct 14, 1999 08:45:38 AM	

OM-CP-IFC200 Windows software,
sold separately.

Temperature Channel	
Minimum	18.5 Deg. C
Maximum	22.5 Deg. C
Arithmetic Mean	20.2 Deg. C
Standard Deviation	1.3 Deg. C
Mean Kinetic Temperature	20.3 Deg. C
Pressure Channel	
Minimum	11.426 psia
Maximum	14.895 psia
Arithmetic Mean	13.403 psia
Standard Deviation	1.495 psia

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Description
OM-CP-PRTEMP101	Pressure and temperature data logger with 1-year battery life
OM-CP-PRTEMP101-CERT†	Pressure and temperature data logger with 1-year battery life and NIST calibration certificate
OM-CP-PRTEMP110	Pressure and temperature data logger with 10-year battery life and NIST calibration certificate
OM-CP-PRTEMP110-CERT†	Pressure and temperature data logger with 10-year battery life and NIST calibration certificate
OM-CP-IFC200	Windows software and 3.7 m (12') USB interface cable
OM-CP-BAT101	Replacement 3.6V lithium battery for OM-CP-PRTEMP101
OM-CP-BAT105	Replacement 3.6V lithium battery for OM-CP-PRTEMP110

Comes complete with 3.6V lithium battery. Operator's manual and USB cable are included with the OM-CP-IFC200 Windows software (software is required to operate the data logger and is sold separately).

† NIST calibration for temperature only.

Ordering Example: OM-CP-PRTEMP101-CERT pressure and temperature data logger with NIST calibration certificate and OM-CP-IFC200 Windows software and USB cable



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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

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• Pressure, Strain and Force

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• Heaters

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