



# Pressure and Temperature Dataloggers

Part of the NOMAD® Family

OM-CP-PRTEMP101 and OM-CP-PRTEMP110

**\$229**  
Basic Unit

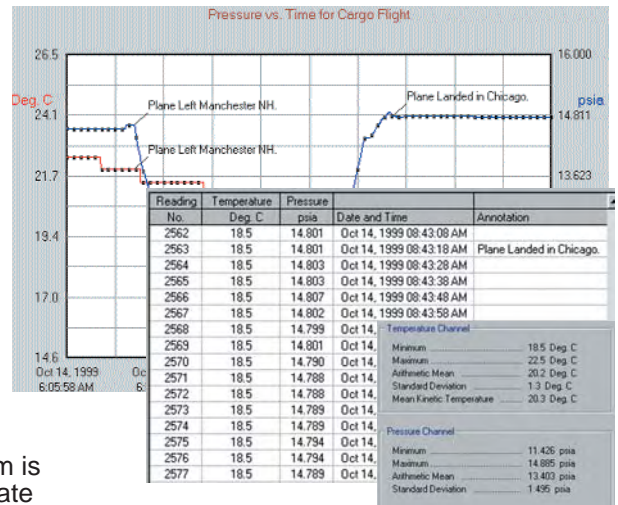


OM-CP-PRTEMP101 and OM-CP-PRTEMP110 dataloggers shown larger than actual size

- ✓ 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 dataloggers. These dataloggers 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 COM 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
- Temperature Range:** -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 psia 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 hours 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

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

**Power:** 3.6 V lithium battery

**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 RS-232 port is not in use

**Data Format:** Date and time stamped, °C, °F, °K, °R, psia, in Hg, mmHg, 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, RS-232C COM or USB (interface cable required)

**Communications:**

OM-CP-PRTEMP101:

2400 baud

OM-CP-PRTEMP110:

57600 baud

**Software:** Windows

95/98/NT/2000/XP

**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")

**ALL MODELS AVAILABLE FOR FAST DELIVERY!**

**To Order (Specify Model Number)**

Model No.	Price	Description
OM-CP-PRTEMP101	\$229	Pressure and temperature datalogger with 1-year battery life
OM-CP-PRTEMP101-CERT	229	Pressure and temperature datalogger with 1-year battery life with NIST calibration certificate
OM-CP-PRTEMP110	329	Pressure and temperature datalogger with 10-year battery life with NIST calibration certificate
OM-CP-PRTEMP110-CERT	329	Pressure and temperature datalogger with 10-year battery life with NIST calibration certificate
OM-CP-IFC110	99	Windows software and 1.2 m (4') RS-232 cable with DB9F termination
OM-CP-IFC200	119	Windows software and 3.7 m (12') USB interface cable
OM-CP-BAT101	10	Replacement 3.6 V lithium battery for OM-CP-PRTEMP101
OM-CP-BAT105	12	Replacement 3.6 V lithium battery for OM-CP-PRTEMP110

Operator's manual and RS-232 cable are included with the OM-CP-IFC110 Windows software (software is required to operate the datalogger and is sold separately). NIST calibration for temperature only.

**Ordering Example:** OM-CP-PRTEMP101-CERT pressure and temperature datalogger with NIST calibration certificate and OM-CP-IFC110 Windows software and RS-232 cable, \$229 + 60 + 99 = \$388.

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