

OM-CP-PRTEMP1000IS

Intrinsically Safe Rugged Temperature and Pressure Recorder

Part of the NOMAD® Family

\$649
Basic Unit



OM-CP-PRTEMP1000IS datalogger, \$649, shown smaller than actual size.

- ✓ Intrinsically Safe
- ✓ Rugged
- ✓ Programmable Start Time
- ✓ Real-Time Operation
- ✓ User-Friendly
- ✓ Low Cost

The OM-CP-PRTEMP1000IS is a rugged pressure recorder that accurately monitors and records pressure and temperature at user programmable reading intervals.

The OM-CP-PRTEMP1000IS has been Factory Mutual certified as intrinsically safe for Class I, Division 1, groups A, B, C and D and non-incendive for Class I, Division 2, groups A, B, C and D. This certification makes the device ideal for uses in hostile environment applications such as air conditioning systems, chilled water, hot water, air, gas, oil and steam pressure systems. The internal temperature sensor provides accurate temperature measurements without the need of a separate temperature recorder.

The logger can be started to take measurements as often as every two seconds, up to one reading every twelve hours. It will store up to 16,383 readings in its non-volatile memory.

The OM-CP-PRTEMP1000IS uses a rugged stainless steel pressure strain gauge to accurately measure the pressure. The device comes standard with a common

¼" NPT fitting, which allows the logger to be adapted to almost any pressure fitting. There are many different pressure ranges available to suit most any application.

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 file.

Specifications

Temperature Sensor: Semiconductor
Temperature Range: -40 to 80°C (-40 to 176°F)
Temperature Resolution: 0.1°C
Calibrated Accuracy: ±0.5°C
Pressure Sensor: Semiconductor strain gauge
Calibrated Accuracy: 2% FSR, 0.25% @ 25°C typical

Pressure Range	Resolution
0 to 30 psia	0.002 psia
0 to 100 psia	0.005 psia
0 to 300 psia	0.02 psia
0 to 500 psia	0.05 psia
0 to 1000 psia	0.05 psia
0 to 5000 psia	0.2 psia
0 to 30 psig	0.002 psig
0 to 100 psig	0.005 psig
0 to 300 psig	0.02 psig
0 to 500 psig	0.05 psig

Pressure Response Time: 0.1 ms (10 to 90% FSR)
Repeatability: ± 0.5% FSR; ± 0.2% typical
Adaptor: ¼" male NPT

Start Time: Software programmable start time and date, up to 6 months in advance

Real Time Recording: May be used with PC to monitor and record data in real time

Memory: 16,383 readings per channel

Reading Interval: 1 reading every 2 seconds, to 1 every 12 hours

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Power: 3.6 V lithium battery (included)

Battery Life: 1 year typical

Battery Shelf Life: Up to 1 year when device is not in use

Data Format: Date and time stamped °C, °F, °K, °R; PSIA(G), inches, feet, mmHg, bar, Torr, kPa

Time Accuracy: 1 minute/month at 20°C, (RS-232 port not in use)

Computer Interface: PC serial, RS-232C COM or USB (Interface cable required); 2400 baud

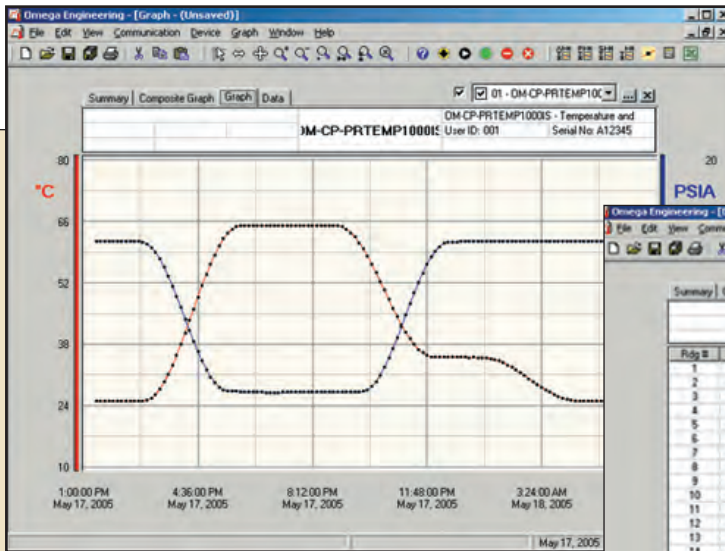
Software: XP SP3/Vista and 7 (32-bit and 64-bit)

Operating Environment: -40 to 80°C (-40 to 176°F) 0 to 100% RH

Dimensions: 1.25 x 6.4" (32 x 163 mm)

Weight: 338 g (12 oz)

Material: Stainless Steel
Approvals: FM Certified Intrinsically Safe for Class I, Division 1 groups A, B, C and D and non-incendive for Class I, Division 2, groups A, B, C and D.



Row #	Date	Time	Temperature	Units	Absolute Pressure	Units	Annotation
1	May 17, 2005	1:23:37 PM	24.9	°C	14.690	PSIA	
2	May 17, 2005	1:24:37 PM	24.9	°C	14.690	PSIA	
3	May 17, 2005	1:25:37 PM	24.9	°C	14.696	PSIA	
4	May 17, 2005	1:26:37 PM	24.9	°C	14.702	PSIA	
5	May 17, 2005	1:27:37 PM	24.9	°C	14.690	PSIA	
6	May 17, 2005	1:28:37 PM	24.9	°C	14.690	PSIA	
7	May 17, 2005	1:29:37 PM	25	°C	14.7	PSIA	
8	May 17, 2005	1:30:37 PM	25	°C	14.696	PSIA	
9	May 17, 2005	1:31:37 PM	24.9	°C	14.7	PSIA	
10	May 17, 2005	1:32:37 PM	24.9	°C	14.7	PSIA	
11	May 17, 2005	1:33:37 PM	24.9	°C	14.690	PSIA	
12	May 17, 2005	1:34:37 PM	24.9	°C	14.696	PSIA	
13	May 17, 2005	1:35:37 PM	24.9	°C	14.696	PSIA	
14	May 17, 2005	1:36:37 PM	24.9	°C	14.694	PSIA	
15	May 17, 2005	1:37:37 PM	24.9	°C	14.696	PSIA	
16	May 17, 2005	1:38:37 PM	24.3	°C	14.694	PSIA	
17	May 17, 2005	1:39:37 PM	25	°C	14.696	PSIA	
18	May 17, 2005	1:40:37 PM	25	°C	14.692	PSIA	
19	May 17, 2005	1:41:37 PM	25	°C	14.690	PSIA	
20	May 17, 2005	1:42:37 PM	25	°C	14.690	PSIA	

Statistics for OM-CP-PRTEMP1000IS	
First Reading:	1
Last Reading:	1000
Total Readings:	1000
Start Time:	May 17, 2005 1:23:37 PM
End Time:	May 18, 2005 6:02:37 AM
Duration:	18 hours 39 minutes
Channel 1: Temperature	
Minimum:	24.8 °C @ May 18, 2005 5:59:37 AM
Maximum:	65.2 °C @ May 17, 2005 7:13:37 PM
Average:	42.2339 °C
Standard Deviation:	15.8522 °C
Mean Kinetic Temperature:	52.6485 °C
Channel 2: Absolute Pressure	
Minimum:	4.846 PSIA @ May 17, 2005 6:59:37 PM
Maximum:	14.726 PSIA @ May 18, 2005 3:05:37 AM

OM-CP-IFC200, \$129,
Windows software displays
data in graphical or tabular
format.

ALL MODELS AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
OM-CP-PRTEMP1000IS-1-30-A	\$649	Intrinsically safe pressure and temperature recorder, range: 0 to 30 psia
OM-CP-PRTEMP1000IS-1-30-G	649	Intrinsically safe pressure and temperature recorder, range: 0 to 30 psig
OM-CP-PRTEMP1000IS-1-100-A	649	Intrinsically safe pressure and temperature recorder, range: 0 to 100 psia
OM-CP-PRTEMP1000IS-1-100-G	649	Intrinsically safe pressure and temperature recorder, range: 0 to 100 psig
OM-CP-PRTEMP1000IS-1-300-A	649	Intrinsically safe pressure and temperature recorder, range: 0 to 300 psia
OM-CP-PRTEMP1000IS-1-300-G	649	Intrinsically safe pressure and temperature recorder, range: 0 to 300 psig
OM-CP-PRTEMP1000IS-1-500-A	649	Intrinsically safe pressure and temperature recorder, range: 0 to 500 psia
OM-CP-PRTEMP1000IS-1-500-G	649	Intrinsically safe pressure and temperature recorder, range: 0 to 500 psig
OM-CP-PRTEMP1000IS-1-1000-A	649	Intrinsically safe pressure and temperature recorder, range: 0 to 1000 psia
OM-CP-PRTEMP1000IS-1-5000-A	649	Intrinsically safe pressure and temperature recorder, range: 0 to 5000 psia
OM-CP-IFC200	129	Windows software and 3.7 m (12') USB interface cable
OM-CP-BAT102	12	Replacement 3.6 V lithium battery

Operator's manual and USB interface cable are included with the **OM-CP-IFC200** Windows software (software sold separately).

To order data logger with NIST calibration certificate, add suffix "**-CERT**" to model number and add **\$60** to price, (NIST calibration for temperature only).

Ordering Example: **OM-CP-PRTEMP1000IS-1-100-A-CERT** pressure and temperature data logger with NIST calibration certificate, 1/4" NPT fitting, 0 to 100 psia range, **OM-CP-IFC200** Windows software and USB interface cable, \$649 + 60 + 129 = **\$838**.



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• Flow and Level

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• Data Acquisition

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• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters