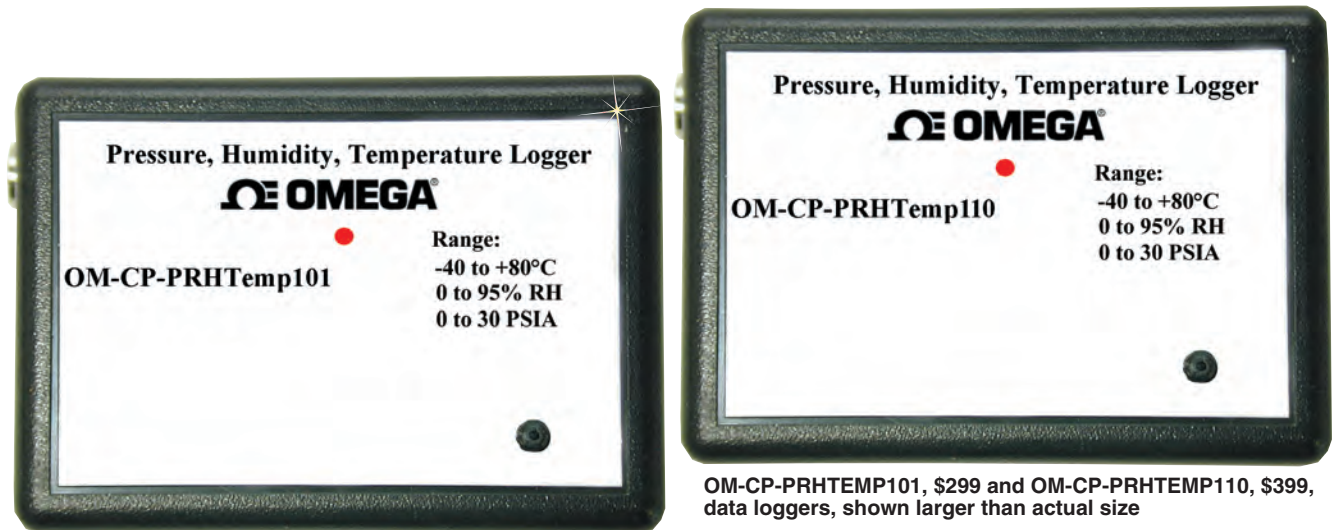


Pressure, Temperature and Humidity Data Loggers Part of the NOMAD® Family

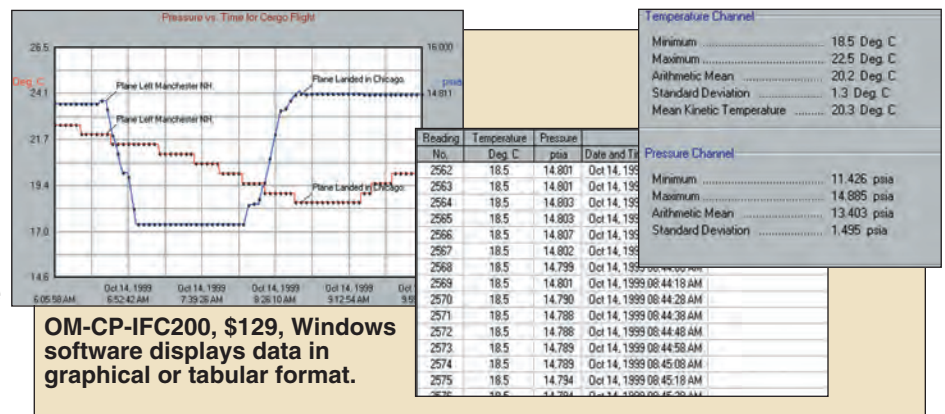
OM-CP-PRHTEMP101 and OM-CP-PRHTEMP110



OM-CP-PRHTEMP101, \$299 and OM-CP-PRHTEMP110, \$399, data loggers, shown larger than actual size

- Programmable Start Time
- Numerous Calculations Performed in Software
- User Calibration Through Software
- Real-Time Operation
- 16-Bit Resolution

The OM-CP-PRHTEMP101 and OM-CP-PRHTEMP110 are miniature, battery-powered, standalone temperature, humidity, and pressure data loggers. These portable, easy-to-use devices will read and record up to 13,107 humidity, 13,107 temperature, and 13,107 pressure measurements. They represent a major leap in both size and performance. Their 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.



Data retrieval is simple. Plug it into an available 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

Pressure Sensor: Strain gage
Pressure Accuracy: ±1% FSR @ 25°C, ±0.2% typical
Temperature Compensated Range: 0 to 50°C
Temperature Effect on Span: ±2% FSR @ 25°C, ±0.4% typical
Temperature Effect on Offset: ±2% FSR @ 25°C, ±0.4% typical
Pressure Resolution: 0.002 psia
Pressure Range: 0 to 30 psia

Temperature Sensor: Thermistor
Temperature Accuracy: ±0.5°C
Temperature Resolution: 0.1°C
Temperature Range: -40 to 80°C (-40 to 176°F)

TEMPERATURE SPECIFIED

Accuracy Range: 0 to 50°C

Humidity Sensor:

Solid state semiconductor

Humidity Accuracy: ±3% RH

Humidity Resolution: 0.5% RH

Humidity Range:

0 to 100% RH non-condensing

Humidity Specified Accuracy Range: 10 to 80% RH, 10 to 40°C

Temperature/Humidity/Pressure

Calibration: Digital calibration is available through software

Calibration Date:

Automatically recorded within device to alert user when calibration is required

Recording Interval:

30/minute to 1/day selectable through software

Start Time: Start time and date are programmable through software

Red Visual Indicator:

LED flashes at selected reading rate or at 1 sec rate under alarm condition

Battery Life:

OM-CP-PRHTEMP101:

1 year at 1 min reading rate

OM-CP-PRHTEMP110:

10 years at 15 min reading rate

Time Accuracy:

±1 minute per month at 20°C

Data Format: Date and time stamped, % RH, dew point mg/ml of water vapor concentration, psia, mmHg, kPa, torr, bar, inHg, °C, °F, °K, °R

Weight:

OM-CP-PRHTEMP101:

30 g (1 oz)

OM-CP-PRHTEMP110:

60 g (2 oz)

Computer Interface:

PC serial, RS-232C COM or USB (interface cable required)

Communications:

OM-CP-PRHTEMP101: 2400 baud

OM-CP-PRHTEMP110: 57,600 baud

Software:

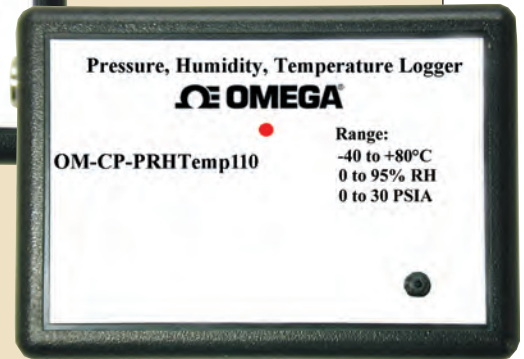
XP SP3/Vista and 7 (32-bit and 64-bit)

Operating Environment:

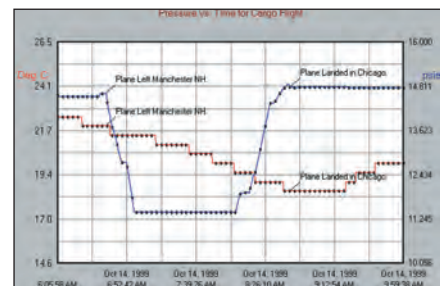
-40 to 176°F (-40 to 80°C),
0 to 95% RH non-condensing



OM-CP-PRHTEMP101, \$299 and OM-CP-PRHTEMP110, \$399, data loggers, shown larger than actual size



Reading No.	Temperature Deg. C	Pressure psia	Date and Time	Annotation
2562	18.5	14.901	Oct 14, 1999 08:43:08 AM	
2563	18.5	14.901	Oct 14, 1999 08:43:18 AM	
2564	18.5	14.903	Oct 14, 1999 08:43:28 AM	Plane Landed in Chicago
2565	18.5	14.903	Oct 14, 1999 08:43:38 AM	
2566	18.5	14.907	Oct 14, 1999 08:43:48 AM	
2567	18.5	14.902	Oct 14, 1999 08:43:58 AM	
2568	18.5	14.799	Oct 14, 1999 08:44:08 AM	
2569	18.5	14.901	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	
2578	18.5	14.788	Oct 14, 1999 08:45:48 AM	


Dimensions:

OM-CP-PRHTEMP101:
35 H x 54 W x 15 mm D
(1.4 x 2.2 x 0.6")

OM-CP-PRHTEMP110:
43 H x 69 W x 20 mm D
(1.7 x 2.7 x 0.8")

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	14.885 psia
Arithmetic Mean	13.403 psia
Standard Deviation	1.495 psia

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-PRHTEMP101	\$299	Pressure, temperature and humidity data logger
OM-CP-PRHTEMP101-CERT	359	Pressure, temperature and humidity data logger with NIST calibration certificate
OM-CP-PRHTEMP110	399	Pressure, temperature and humidity data logger with 10-year battery life
OM-CP-PRHTEMP110-CERT	459	Pressure, temperature and humidity data logger with 10-year battery life and NIST calibration certificate
OM-CP-IFC200	129	Windows software and 1.8 m (6') USB interface cable
OM-CP-BAT105	12	Replacement 3.6 V lithium battery