

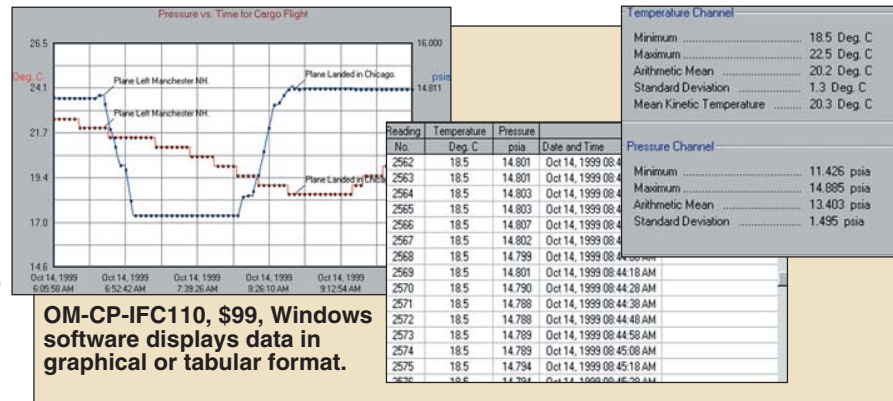
OM-CP-PRHTEMP101, \$299 and OM-CP-PRHTEMP110, \$399, data loggers, shown larger than actual size

Starts at  
**\$299**



- ✓ 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:**  
 $\pm 1\%$  FSR @ 25°C,  $\pm 0.2\%$  typical  
**Temperature Compensated Range:**  
 0 to 50°C  
**Temperature Effect on Span:**  
 $\pm 2\%$  FSR @ 25°C,  $\pm 0.4\%$  typical  
**Temperature Effect on Offset:**  
 $\pm 2\%$  FSR @ 25°C,  $\pm 0.4\%$  typical  
**Pressure Resolution:** 0.002 psia  
**Pressure Range:** 0 to 30 psia

**Temperature Sensor:** Thermistor  
**Temperature Accuracy:**  $\pm 0.5^\circ\text{C}$   
**Temperature Resolution:**  $0.1^\circ\text{C}$   
**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:**  $\pm 3\%$  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

**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:**

WIN98/NT/2000/XP/VISTA 32-bit

(VISTA 32-bit version only;

VISTA 64-bit is not supported)

**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

Pressure, Humidity, Temperature Logger

**OMEGA**

OM-CP-PRHTEMP110

Range:

-40 to +80°C

0 to 95% RH

0 to 30 PSIA

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	
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-IFC110, \$99,**  
**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-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-BAT105	12	Replacement 3.6 V lithium battery

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

**Ordering Example:** **OM-CP-PRHTEMP101-CERT** pressure, temperature and humidity data logger with NIST calibration certificate and **OM-CP-IFC110** Windows software with RS-232 cable, \$359 + 99 = **\$458.**



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