

Humidity and Temperature Data Loggers

Part of the **NOMAD®** Family

OM-CP-RHTEMP101 and OM-CP-RHTEMP110

Starts at
\$199



Optional†

- ✓ **Memory:** 21,845 Humidity and 21,845 Temperature Readings
- ✓ **Programmable Start Time**
- ✓ **Dew Point and Vapor Concentration Calculated in Software**
- ✓ **Miniature Size**
- ✓ **User Calibration Through Software**
- ✓ **Real-Time Operation**

The OM-CP-RHTEMP101 and OM-CP-RHTEMP110 are miniature, battery-powered, standalone, temperature and humidity data loggers. These portable, easy-to-use devices will read and record up to 21,845 humidity and 21,845 temperature measurements. They represent a major leap in both size and performance. The 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. Their small size allows these loggers to fit almost anywhere. Data retrieval is simple. Plug either device into an empty COM port and our easy-to-use software does the rest. The software converts a PC into a real-time strip chart recorder. Data can be printed in graphical and tabular format or exported to a text or Microsoft Excel file.

Specifications

TEMPERATURE/HUMIDITY

Temperature Sensor: Semiconductor

Temperature Measurement Range: -40 to 80°C¹ (-40 to 176°F)¹

Temperature Resolution: 0.1°C

Calibrated Accuracy: 0.5°C

Specified Accuracy Range: 0 to 50°C

Humidity Sensor: Semiconductor^{4,5}

Humidity Measurement Range: 0 to 100% RH

Humidity Resolution: 0.5% RH

Calibrated Accuracy: ±3% RH (±2% RH typical at 25°C)

Specified Accuracy Range: 10 to 80% RH, 10 to 40°C^{2,3}

Humidity Response Time:

90% of change in 60 seconds in slow moving air

GENERAL SPECIFICATIONS

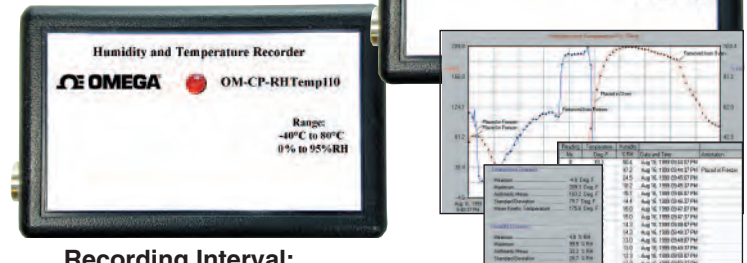
Readings: 21,845 readings/channel

Temperature/Humidity Calibration:

Digital calibration is available through software

Calibration Date: Automatically recorded within device

OM-CP-RHTEMP101, \$199, and OM-CP-RHTEMP110, \$299, shown smaller than actual size



Recording Interval:

2 seconds to 12 hours selectable through software

Start Time: Start time and date are programmable through software, up to 6 months in advance

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

Temperature Alarm: Programmable high and low limits; when logged temperature reaches or exceeds either limit, the LED blinks once/sec

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

Power: 3.6 V lithium battery included

Battery Life:

OM-CP-RHTEMP101: 1 year at 1 min reading rate

OM-CP-RHTEMP110: 10 years at 15 min reading rate

Time Accuracy:

±1 minute per month at 20°C, RS-232 port not in use

Data Format: Date and time stamped, °C, °F, °K, °R % RH, mg of water vapor concentration,

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

Communications:

OM-CP-RHTEMP101: 2400 baud

OM-CP-RHTEMP110: 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 80°C)¹, -40 to 176°F,

0 to 95% RH non-condensing

Weight:

OM-CP-RHTEMP101: 30 g (1 oz)

OM-CP-RHTEMP110: 60 g (2 oz)

Dimensions:

OM-CP-RHTEMP101: 35 H x 55 W x 16 mm D

(1.4 x 2.2 x 0.6")

OM-CP-RHTEMP110: 43 H x 69 W x 20 mm D

(1.7 x 2.7 x 0.8" mm)

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
OM-CP-RHTEMP101	\$199	Temperature and humidity data logger with 1-year battery life
OM-CP-RHTEMP110	299	Temperature and humidity data logger with 10-year battery life
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 3.6V lithium battery for OM-CP-RHTEMP110 (models purchased prior to 6/03 may require a different battery, please consult engineering)

† To order with optional NIST-traceable calibration certificate, add suffix "-CERT" to model number, and \$60 to price.

Operator's manual and RS-232 cable are included with the **OM-CP-IFC110** Windows software (required to operate the data logger and is sold separately).

¹ The recommended operating temperature is 0 to 80°C; ² Humidity accuracy is not specified in condensing environments; ³ Extended exposure to > 90% RH results in a temporary 3% RH error; ⁴ The sensor is light sensitive-bright light may effect measurement; ⁵ Submerging the sensor in any liquid may cause permanent damage.

Ordering Example: **OM-CP-RHTEMP101-CERT** temperature and humidity data logger with NIST calibration certificate and **OM-CP-IFC110** Windows software and RS-232 cable, \$199 + 60 + 99 = **\$358.**



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• Heaters

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