Humidity and Temperature Data Logger
Part of the NOMAD® Family

OM-CP-RHTEMP1000

MADE IN USA · 5 YEAR WARRANTY · NIST · CE

Optional†

✔ **Real Time Operation**
✔ **User Calibration through Software**
✔ **Dew Point/Vapor Concentration Calculated in Software**

This OM-CP-RHTEMP1000 humidity and temperature data logger is a water proof (temperature measurement only), battery powered, stand-alone device used for automatically recording temperatures from -40 to 80°C. This all-in-one compact, portable, easy to use device will measure and record up to 21,845 temperature and 21,845 humidity measurements.

The OM-CP-RHTEMP1000 is 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 the easy to use Windows software does the rest. The software converts your PC into a real time strip chart recorder. Data can be printed in tabular format and can also be exported to a text or Microsoft Excel file.

OM-CP-RHTEMP1000, data logger, shown larger than actual size.

OM-CP-IFC200, Windows software displays data in graphical or tabular format (sold separately).

Specifications
TEMPERATURE CHANNEL PERFORMANCE
Temperature Sensor: Semiconductor
Temperature Measurement Range: -40 to 80°C (-40 to 176°F)[1]
Temperature Resolution: 0.1°C
Calibrated Accuracy: $\pm$0.5°C
Specified Accuracy Range: 0 to 50°C

HUMIDITY CHANNEL PERFORMANCE
Humidity Sensor: Solid state semiconductor [4,5]
Humidity Measurement Range: 0 to 100% RH
Humidity Resolution: 0.5% RH
Calibrated Accuracy: $\pm$3% RH ($\pm$2% RH typical at 25°C)
Specified Accuracy Range: 10 to 80% RH; 10 to 40°C (50 to 104°F) [2,3]
Humdiity Response Time: 90% of change in 60 seconds in slow moving air

General Specifications
Readings: 21,845 readings/channel
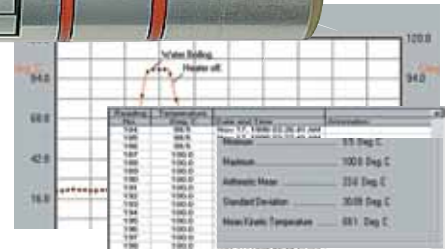**Temperature/Humidity Calibration:** Digital calibration is available through software
Calibration Date: Automatically recorded within device
Recording Interval: 30/minute to 2 day selectable through software

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
Power: 3.6V lithium battery (included)
Battery Life: 1 year typical at 25°C
Time Accuracy: ±1 minute per month at 20°C, RS232 port not in use
Data Format: Date and time stamped, °C, °F, °K, °R %RH, mg of water vapor concentration,
Weight:
  Aluminum: 145 g (5 oz)
  Stainless Steel: 285 g (10 oz)
Computer Interface: PC serial, RS232C COM or USB (interface cable required)
Software: XP SP3/Vista and 7 (32- and 64-bit)
Operating Environment: -40 to 80°C[1] (-40 to 176°F) 0 to 100% RH non-condensing when case is properly sealed
Dimensions: 25 D x 137 mm L (1.00 x 5.40")
Material: Aluminum or stainless steel

To Order Visit omega.com/om-cp-rhtemp1000 for Pricing and Details

Model No.	Description
OM-CP-RHTEMP1000	Humidity and temperature data logger (aluminum)
OM-CP-RHTEMP1000-CERT†	Humidity and temperature data logger (aluminum) with NIST calibration certificate
OM-CP-RHTEMP1000-SS	Humidity and temperature data logger (stainless steel)
OM-CP-RHTEMP1000-SS-CERT†	Humidity and temperature data logger (stainless steel) with NIST calibration certificate
OM-CP-IFC200	Windows software and 3.7 (12') USB interface cable
OM-CP-BAT102	Replacement 3.6V lithium battery

Comes complete with 3.6V lithium battery. Operator's manual and USB interface cable are included with the OM-CP-IFC200 Windows software (sold separately and required to operate the data logger).

[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-RHTEMP1000-CERT humidity and temperature data logger with NIST calibration certificate and **OM-CP-IFC200** Windows software and USB interface cable.