

Intrinsically Safe Humidity and Temperature Data Logger Part of the NOMAD® Family

OM-CP-RHTEMP1000IS



Optional

- ✓ Intrinsically Safe for Class 1, Div 1, Groups ABCD and Non-incendive for Class 1, Div 2, Groups ABCD Indoor/Outdoor (NEMA Type 4X, 6P) Locations
- ✓ Programmable Start Time
- ✓ Real-Time Operation
- ✓ Automatic Dew Point and Vapor Concentration Calculations

The OM-CP-RHTEMP1000IS humidity and temperature logger is a rugged, water resistant, battery powered, stand alone device which can be used to automatically record humidity and temperature. This all in one compact, portable, easy to use device is able to measure and record up to 21,845 humidity and temperature measurements

The OM-CP-RHTEMP1000IS is ideal for harsh environments. Its real time clock ensures that all the 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. The device can be started and stopped directly from your computer and its small size allows it to fit almost anywhere. The OM-CP-RHTEMP1000IS makes data retrieval quick and easy. Simply plug the device into an available COM port and our user-friendly 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 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

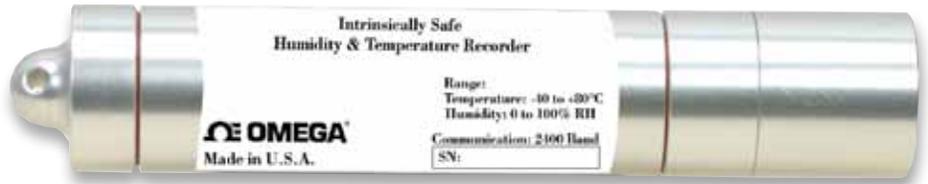
Humidity Sensor: Semiconductor

Humidity Range: 0 to 100% RH

Humidity Resolution: 0.5% RH

Calibrated Accuracy: ±3%RH

(±2% RH typical at 25°C)



OM-CP-RHTEMP1000IS shown smaller than actual size

Response Time: 90% change in 60 seconds in slow moving air
Specified Accuracy Range: 10 to 80% RH, 10 to 40°C

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

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

Recording Interval: 2 seconds to 12 hours selectable in software

Temperature Calibration: Digital calibration through software
Calibration Date: Automatically recorded within device to alert user when calibration is required

Power: 3.6V lithium battery included

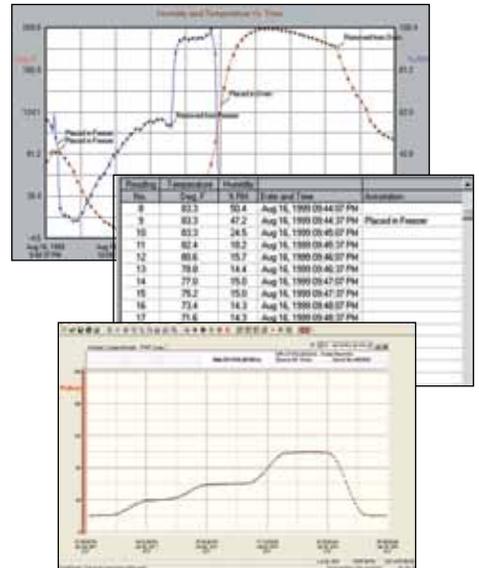
Battery Life: 1 year typical

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

Time Accuracy: ±1 minute per month at 20°C when RS232 port is not in use

Computer Interface: PC serial, or USB (interface cable required) 2400 baud

Software: Windows® XP SP3/Vista/7 and 8 (32- and 64-bit)



OM-CP-IFC200 Windows software displays data in graphical or tabular format

Operating Environment:

-40 to 80°C (-40 to 176°F),
0 to 100% RH non-condensing (case properly sealed)

Dimensions: 138 dia x 26 mm L (5.4 x 1.0")

Weight

Aluminum: 145 g (5 oz)

Stainless: 285 g (10 oz)

To Order Visit omega.com/om-cp-rhtemp1000is for Pricing and Details

Model No.	Description
OM-CP-RHTEMP1000IS	Intrinsically safe humidity and temperature data logger (aluminum case)
OM-CP-RHTEMP1000IS-CERT	Intrinsically safe humidity and temperature data logger with NIST calibration certificate (aluminum case)
OM-CP-RHTEMP1000IS-SS	Intrinsically safe humidity and temperature data logger (stainless steel case)
OM-CP-RHTEMP1000IS-SS-CERT	Intrinsically safe humidity and temperature data logger with NIST calibration certificate (stainless steel case)
OM-CP-IFC200	Windows software and 1.8 m (6') USB interface cable
OM-CP-BAT102	Replacement 3.6V lithium battery

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

Ordering Example: OM-CP-RHTEMP1000IS-CERT Intrinsically safe temperature and humidity data logger with NIST calibration certificate and OM-CP-IFC200 Windows software and USB interface cable.