

# OM-CP-RHTEMP1000 Humidity and Temperature Data Logger Part of the NOMAD® Family



## \$399

Basic Unit



- ✓ 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.

### Specifications TEMPERATURE CHANNEL PERFORMANCE

**Temperature Sensor:**  
Semiconductor

**Temperature Measurement Range:** -40 to +80°C (-40 to 176°F)<sup>1</sup>

**Temperature Resolution:** 0.1°C

**Calibrated Accuracy:** ±0.5°C

**Specified Accuracy Range:**  
0 to +50°C

### HUMIDITY CHANNEL PERFORMANCE

**Humidity Sensor:** Solid state semiconductor<sup>4,5</sup>

OM-CP-RHTEMP1000, \$399, data logger shown larger than actual size

**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<sup>2,3</sup>

**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

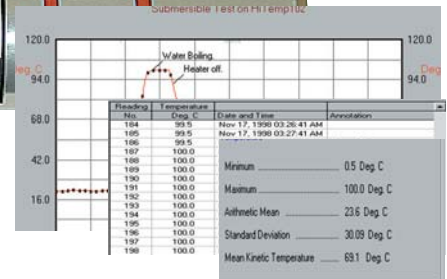
is available through software  
**Calibration Date:** Automatically recorded within device

**Recording Interval:** 30/minute to 2 day selectable through software

**Start Time:** Start time & 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:** 3.6 V lithium battery (included)



**Battery Life:** 1 year typical at 25°C

**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, **Weight:**

Aluminum: 145 g (5 oz);

Stainless steel: 285 g (10 oz)

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

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

**Operating Environment:**

-40 to 80°C<sup>1</sup> (-40 to 176°F)

0 to 100% RH non-condensing when case is properly sealed

**Dimensions:**

25 mm dia x 137 mm L

(1.00 x 5.40")

**Material:** Aluminum or stainless steel

### ALL MODELS AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
OM-CP-RHTEMP1000	\$399	Humidity and temperature data logger (aluminum)
OM-CP-RHTEMP1000-SS	449	Humidity and temperature data logger (stainless steel)
OM-CP-IFC200	119	Windows software and 3.7 (12') USB interface cable
OM-CP-BAT102	10	Replacement 3.6 V lithium battery

Operator's manual and USB interface cable are included with the **OM-CP-IFC200** Windows software (software sold separately). (software is required to operate the data logger and is sold separately). NIST calibration for temperature only.

<sup>1</sup> The recommended operating temperature is 0 to +80°C

<sup>2</sup> Humidity accuracy is not specified in condensing environments

<sup>3</sup> Extended exposure to > 90%RH results in a temporary 3 %RH error

<sup>4</sup> The sensor is light sensitive-bright light may effect measurement

<sup>5</sup> 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, \$399 + 60 + 119 = \$578.



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