

Humidity and Temperature Data Loggers

Part of the **NOMAD®** Family

OM-CP-RHTEMP101 and OM-CP-RHTEMP110

Starts at
\$199



- ✓ **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.

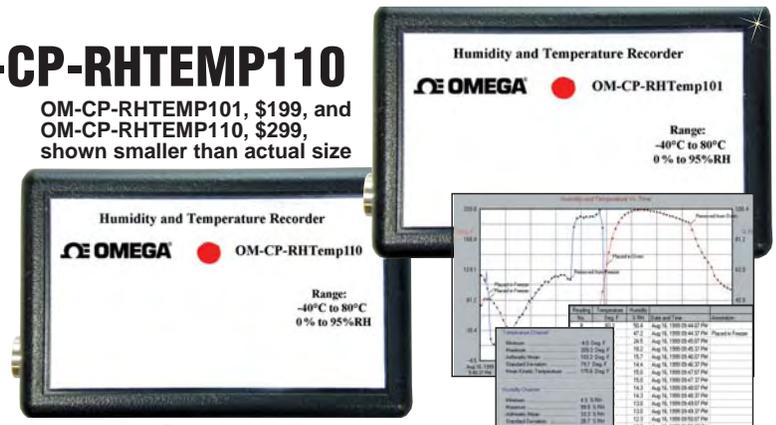
Specifications

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 3.6 V lithium battery for OM-CP-RHTEMP110 (models purchased prior to 6/03 may require a different battery, please consult engineering)

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.

omega.co.uk[®]

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

www.omega.co.uk



UNITED STATES

www.omega.com

1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca

Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de

Deckenfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk

Manchester, England
0800-488-488
+44-(0)161-777-6611

FRANCE

www.omega.fr

0800-466-342

BENELUX

www.omega.nl

0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters