

Wireless Humidity and Temperature Monitoring and Alarming System Part of the NOMAD® Family

OM-CP-THERMALERT-RH



- ✓ **Wireless Two-Way Communication**
- ✓ **Precision RTD Sensing Element**
- ✓ **View Data in Real-Time**
- ✓ **2 Year Battery Life**
- ✓ **Battery Life Indicator**
- ✓ **Field Upgradeable**

The OM-CP-THERMALERT-RH is a humidity and temperature monitoring and alarming system, designed specifically for laboratories, warehouses and other environments where humidity monitoring is critical. The system can be used to monitor a single temperature location or expanded to include hundreds of locations by adding additional transmitters.

The OM-CP-THERMALERT-RH provides real time notification of humidity and temperature deviations, and features a user programmable alarm that can be configured to send a message via text message, screen alarm/or e-mail if an alarm condition occurs.

The OM-CP-THERMALERT-RH system is equipped with wireless two-way communication. Full communication can be performed directly from a central PC, including starting, stopping and downloading. In addition to wirelessly transmitting data, OM-CP-THERMALERT-RH also stores each reading to internal memory for backup. This back up data may be retrieved wirelessly at a later time. Customers can setup automatic archiving preferences, ensuring all data is saved and retained to comply with federal regulations.

Specifications

TEMPERATURE

Sensor: Semiconductor
Range: -20 to 80°C (-4 to 176°F)
Resolution: 0.01°C (0.018°F)



OM-CP-THERMALERT-RH, shown actual size.

Calibrated Accuracy: $\pm 0.5^{\circ}\text{C}$
 (0.9°F) 0 to 50°C (32 to 122°F)

HUMIDITY

Sensor: Semiconductor
Range: 0 to 95% RH
Resolution: 0.1% RH
Calibrated Accuracy: $\pm 3.0\%$ RH
 [$\pm 2\%$ RH typical at 25°C (77°F)]

WIRELESS

RF Frequency: 2.45 GHz IEEE 802.15.4 ultra-low power wireless transceiver with fully bi-directional communication

Band: ISM band 2.405-2.48 GHz
Maximum Output Power: +0dBm typical

Receiver Sensitivity (OM-CP-RFC1000-EXT): -95dBm typical
Range

Outdoor Line-of-Sight:
 610 m (2000')
Indoor: 152 m (500')

GENERAL

Reading Rate: One reading every two seconds to one every 24 hours
Memory: 15,000 readings; software configurable memory wrap
Wrap Around: Yes

Start Modes:

- Immediate start
- Delay start up to 18 months

Calibration: Digital calibration through software

Calibration Date: Automatically recorded within device

Battery Type: 3.6V lithium battery (included); user replaceable

Battery Life: 2 years typical

Data Format: Date and time stamped °C, °F, K, °R

Time Accuracy: ± 1 minute/month at 25°C (77°F)

Computer Interface:

OM-CP-RFC1000-EXT required; 115,200 baud

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

Operating Environment:

-20 to 80°C (-4 to 176°F), 0 to 95% RH non-condensing

Dimensions:

55 W x 133 H x 33 mm D (2.2 x 5.25 x 1.3")

Enclosure Material: ABS Plastic

WIRELESS DATA ACQUISITION



OM-CP-THERMALERT-RH,
shown smaller
than actual size.

OM-CP-RFC1000-EXT,
Windows software
displays data in graphical
or tabular format
(sold separately).

To Order	
Model No.	Description
OM-CP-THERMALERT-RH	Wireless humidity and temperature transmitter
OM-CP-THERMALERT-RH-CERT	Wireless humidity and temperature transmitter with NIST calibration certificate
OM-CP-RFC1000-EXT	Wireless transceiver package includes RF transceiver, USB cable, Windows software and operator's manual (not CE approved)
OM-CP-RFC1000-EXT-EUR	Wireless transceiver package includes RF transceiver, USB cable, Windows software and operator's manual (CE approved)
OM-CP-RFC1000-IP69K	Splash proof (IP69K) wireless transceiver package includes RF transceiver, USB cable, Windows software and operator's manual (not CE approved)
OM-CP-BAT109	Replacement 3.6V lithium battery

Comes complete with 3.6V lithium battery. Operator's manual, Windows software and USB interface cable are included with the OM-CP-RFC1000-EXT wireless transceiver package (required to operate the data logger, sold separately).

Note: Because of transmission frequency regulations, OM-CP-THERMALERT-RH wireless data loggers are only approved for use in the following countries: Australia, Austria, Belgium, Bulgaria, Canada, Chile, Columbia, Croatia, Cyprus, Czech Republic, Denmark, Ecuador, Estonia, Finland, France, Germany, Greece, Honduras, Hungary, Iceland, Ireland, Israel, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Mexico, New Zealand, Norway, Peru, Poland, Portugal, Romania, Saudi Arabia, Singapore, Slovakia, Slovenia, South Africa, Spain, Sweden, Switzerland, Thailand, The Netherlands, Turkey, United Kingdom, United States, Venezuela, Vietnam.

Ordering Example: OM-CP-THERMALERT-RH-CERT, wireless humidity and temperature transmitter with NIST calibration certificate and OM-CP-RFC1000-EXT, wireless transceiver package.