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**

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

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 (0.18°F)
Calibrated Accuracy: ±0.5°C (0.9°F) 0 to 150°C (32 to 122°F)

HUMIDITY

Sensor: Semiconductor
Range: 0 to 95% RH
Resolution: 0.1% RH
Calibrated Accuracy: ±3.0% RH [±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
Output Power: +0dBm typical
Transmitter Range (to Receiver or Repeater):
Outdoor Line-of-Sight: 122 m (400')
Indoor: 46 m (150')

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 required; 115,200 baud
Software: XP SP3/Vista/ Windows® 7 (32- and 64-bit)
Operating Environment: -20 to 80°C (-4 to 176°F), 0 to 95% RH non-condensing
Dimensions: 55 W x 127 H x 33 mm D (2.2 x 5.0 x 1.3")
Enclosure Material: ABS Plastic

OM-CP-RFC1000 Receiver

Sensitivity: -95 dBm typical
Max Number of Transmitters: Up to 20 transmitters sending data directly to the receiver or up to 300 transmitters using repeaters (20 transmitters per repeater)

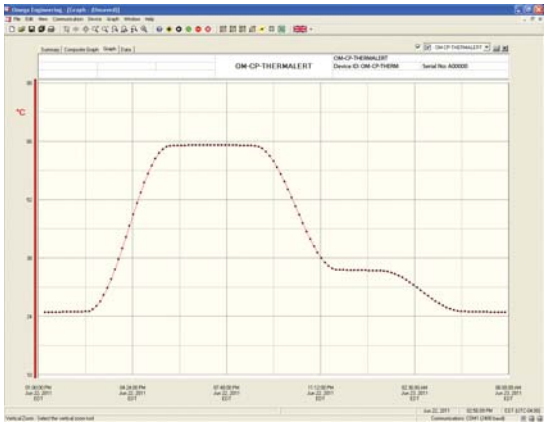
OM-CP-RFC1000-REPEATER

Max Number of Transmitters per Repeater: 20
Max Distance to Receiver or Next Repeater:
Outdoor Line-of-Sight: 122 m (400')
Indoor: 46 m (150')

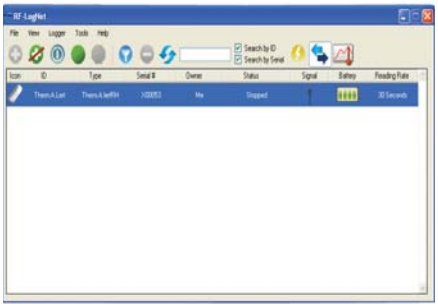
OM-CP-THERMALERT-RH shown smaller than actual size.

OM-CP-RFC1000, receiver.

OM-CP-RFC1000-REPEATER.



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



The RF-LogNet software is used to configure the OM-CP-THERMALERT-RH wireless transmitters and streams data to the OM-CP software.

MOST POPULAR MODEL HIGHLIGHTED!

To Order *(Specify Model Number)*

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		Wireless receiver package includes RF receiver, USB cable, OM-CP Windows software, RF-LogNet software and operator's manual
OM-CP-RFC1000-REPEATER		Wireless repeater
OM-CP-BAT109		Replacement 3.6V lithium battery

Comes complete with 3.6V lithium battery

*The **OM-CP-RFC1000** receiver package is required to operate the wireless transmitter and is sold separately.*

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

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