

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

### OM-CP-THERMALERT



Optional

- ✓ **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 temperature monitoring and alarming system is designed specifically for hospitals, laboratories, pharmaceutical facilities and other critical temperature monitoring areas.

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 records both ambient temperature and humidity and provides real time notification of 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 system includes an internal sensor window.

The OM-CP-THERMALERT 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, it can also store 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

**Range:** -20 to 80°C (-4 to 176°F)

**Resolution:** 0.01°C (0.018°F)

**Calibrated Accuracy:** ±0.5°C (±0.9°F) from 0 to 50°C (32 to 122°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:** 30,000 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



OM-CP-THERMALERT, shown actual size.

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

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

**Computer Interface:** OM-CP-RFC1000-EXT required; 115,200 baud

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

#### Operating Environment:

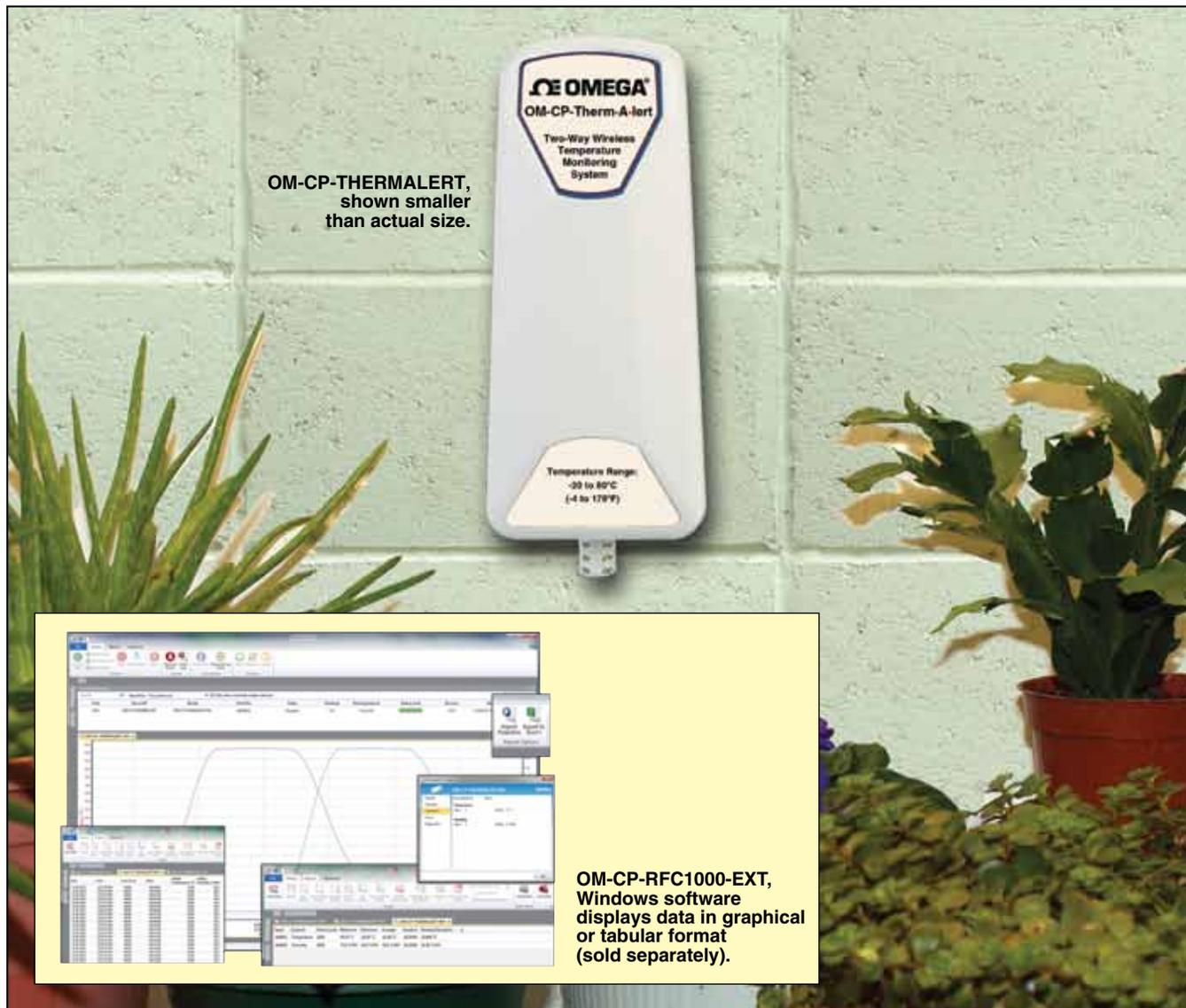
-20 to 80°C (-4 to 176°F), 0 to 95% RH non-condensing

**Enclosure Material:** ABS plastic

#### Dimensions:

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

# WIRELESS DATA ACQUISITION



OM-CP-THERMALERT,  
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	Wireless temperature transmitter
OM-CP-THERMALERT-CERT	Wireless 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 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-CERT, wireless temperature transmitter with NIST calibration certificate and OM-CP-RFC1000-EXT, wireless transceiver package.