



WIRELESS DATA ACQUISITION

Temperature Monitoring and Alarming System with Wireless Two-Way Communication Part of the NOMAD® Family

OM-CP-THERMALERT-GB and
OM-CP-THERMALERT-P



Optional†

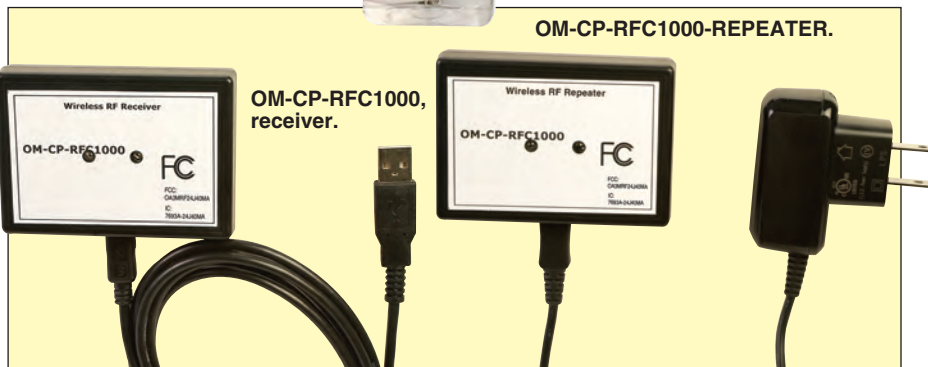
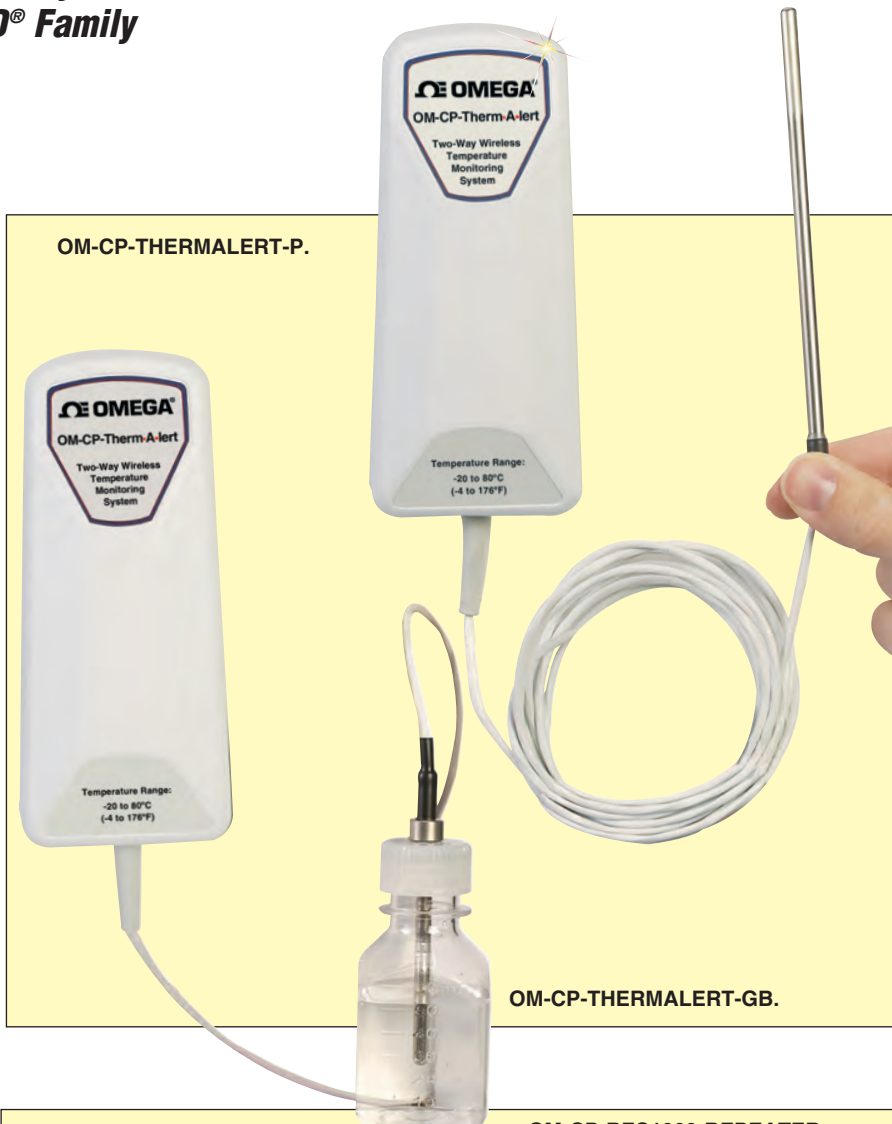
- Wireless Two-Way Communication
- Precision RTD Sensing Element
- View Data in Real-Time
- Glycol Bottle (Only for the (OM-CP-THERMALERT-GB))
- 2 Year Battery Life
- Battery Life Indicator
- Field Upgradeable

The OM-CP-THERMALERT-GB and OM-CP-THERMALERT-P are temperature monitoring and alarming systems designed for use in hospitals, laboratories, pharmaceutical facilities and other critical temperature monitoring areas. Also, these units can be used to monitor a single temperature location or expanded to include hundreds of locations by adding additional transmitters. These units record both ambient temperature and humidity.

The OM-CP-THERMALERT-GB and OM-CP-THERMALERT-P 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 and/or e-mail if an alarm condition occurs.

The OM-CP-THERMALERT-GB system includes an RTD probe that is mounted in a miniature bottle filled with ethylene glycol. In this method, a temperature "buffered" reading is taken, preventing false alarms.

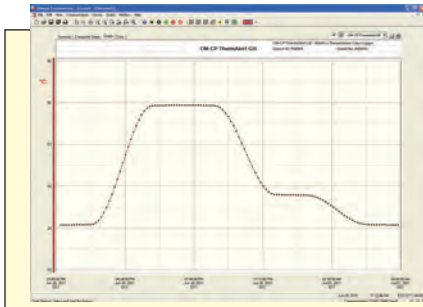
The OM-CP-THERMALERT-P system includes an RTD probe with a 0.9 m (3') lead wire and a 114 mm (4.5") probe sheath.



The OM-CP-THERMALERT-GB and OM-CP-THERMALERT-P 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, both units store each reading

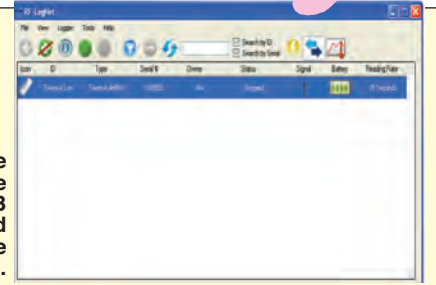
to internal memory for backup. This back up data may be retrieved wirelessly at a later time. Customers can set-up automatic archiving preferences, ensuring all data is saved and retained to comply with federal regulations.

† Refer to next page for NIST calibration ordering information.



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-GB wireless transmitters and streams data to the OM-CP software.



Specifications

TEMPERATURE

Probe Temperature Range:

OM-CP-THERMALERT-GB:
-50 to 80°C (-58 to 176°F)

OM-CP-THERMALERT-P:
-200 to 440°C (-328 to 824°F)

Probe Calibrated Accuracy:

OM-CP-THERMALERT-GB:
±0.1°C, -10 to 80°C (14 to 176°F)
±0.5°C (outside of that range)

OM-CP-THERMALERT-P:
±0.1°C, -10 to 150°C
(14 to 302°F) ±0.5°C (outside of that range)

Resolution: 0.01°C

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: 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

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

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

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:

Data Logger:

55 W x 127 L x 33 mm D
(2.2 x 5.0 x 1.3")

Wire: 0.9 m (3')

Probe: 0.19 dia x 114 mm
(³/₁₆ x 4.5")

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')

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Description
OM-CP-THERMALERT-GB30	Wireless temperature transmitter with RTD probe and 30 ml glycol bottle
OM-CP-THERMALERT-GB30-CERT†	Wireless temperature transmitter with RTD probe and 30 ml glycol bottle and NIST calibration certificate
OM-CP-THERMALERT-GB60	Wireless temperature transmitter with RTD probe and 60 ml glycol bottle
OM-CP-THERMALERT-GB60-CERT†	Wireless temperature transmitter with RTD probe and 60 ml glycol bottle and NIST calibration certificate
OM-CP-THERMALERT-GB250	Wireless temperature transmitter with RTD probe and 250 ml glycol bottle
OM-CP-THERMALERT-GB250-CERT†	Wireless temperature transmitter with RTD probe and 250 ml glycol bottle and NIST calibration certificate
OM-CP-THERMALERT-P	Wireless temperature transmitter with precision RTD probe
OM-CP-THERMALERT-P-CERT†	Wireless temperature transmitter with precision RTD probe and 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.

OM-CP-THERMALERT-GB includes glycol bottle.

Ordering Example: OM-CP-THERMALERT-GB30, wireless temperature transmitter and OM-CP-RFC1000 wireless receiver package.

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