



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

Calibrated Accuracy: ±0.1°C

-10 to 150°C (14 to 302°F);

±0.5°C (outside of that range)

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)



OM-CP-THERMALERT, shown actual size.

Operating Environment:

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

Enclosure Material: ABS plastic

Dimensions:

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

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')

† Refer to next page for NIST calibration ordering information.

WIRELESS DATA ACQUISITION

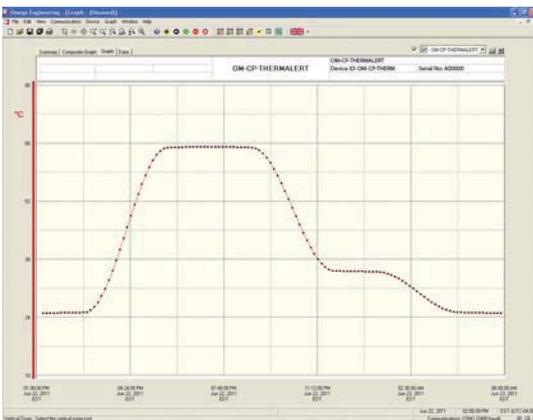


OM-CP-THERMALERT, shown smaller than actual size.



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 MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Description
OM-CP-THERMALERT	Wireless temperature transmitter
OM-CP-THERMALERT-CERT†	Wireless 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-CERT, wireless temperature transmitter with NIST calibration certificate and OM-CP-RFC1000, wireless receiver package.

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