Wireless Temperature Data Logger with Display

OM-CP-RFTEMP2000A

5 YEAR WARRANTY **NIST** CE
Optional

✔ **Wireless Two Way Communication**
✔ **Ambient Temperature Monitoring**
✔ **View Data in Real Time**
✔ **5 Year Battery Life**
✔ **Battery Life Indicator**
✔ **Field Upgradeable**
✔ **Audible and LED Alarm Indicators**
✔ **Cumulative Alarm Delay**

The OM-CP-RFTEMP2000A is a wireless data logger with digital display. The device measures ambient temperatures, making it ideal for monitoring perishable goods, chemicals and more. Starting, stopping and downloading from the device are all performed wirelessly using the OM-CP-RFC1000-EXT wireless transceiver, allowing the user to spend less time maintaining the data logger. Data can be provided in real time back to a central PC, or the device may be downloaded at periodic intervals.

The convenient digital display provides the current reading as well as minimum, maximum and average statistics for a convenient snap shot of the logged data. For instant, out of range notification, an audible buzzer as well as LED alarm indicator notifies users when the temperature is above or below the user specified alarm setting. Through the software, email and text message alarms can also be sent.

The OM-CP-RFTEMP2000A can be used as a single, wireless data logging system, yet can be expanded to a large scale system, which can include hundreds of data loggers measuring a number of areas (additional wireless loggers and transceivers may be required). Data can be viewed in graphical or tabular formats and summary and statistics views are available for further analysis. The software features export to Excel, data annotation, digital calibration and more.
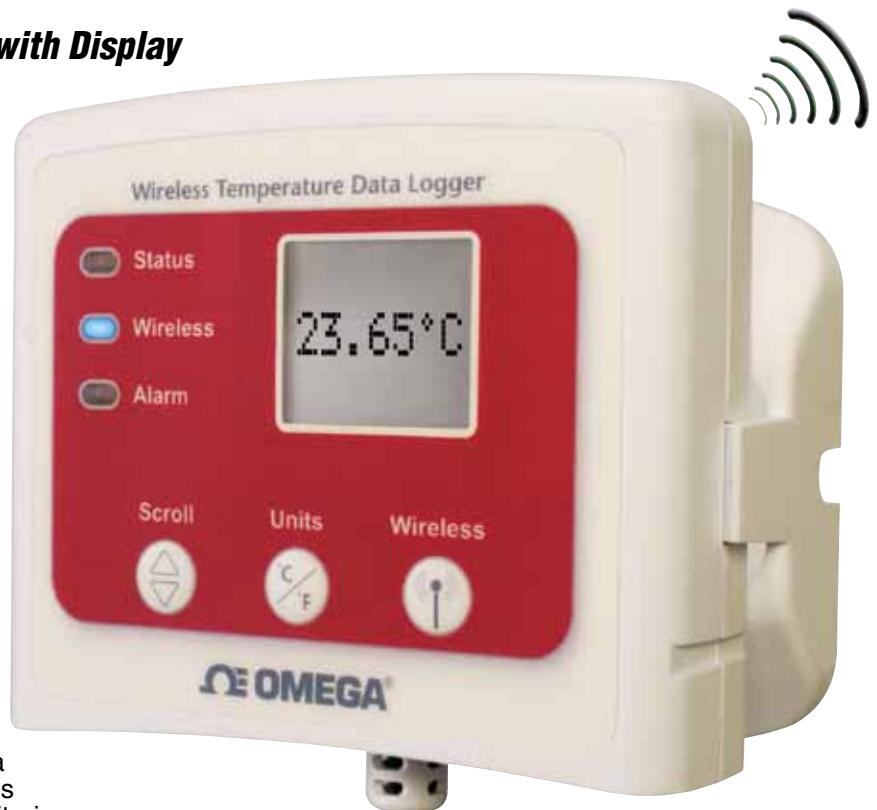
SPECIFICATIONS
TEMPERATURE
Internal Channel
Temperature Range: -20 to 60°C (-4 to 140°F)
Temperature Resolution: 0.01°C (0.018°F)
Calibrated Accuracy: ±0.50°C (±0.9°F), 0 to 55°C (32 to 131°F)
Response Time: 10 minutes free air

OM-CP-RFTEMP2000A with mounting bracket shown actual size.

WIRELESS
RF Frequency: 2.45GHz IEEE 802.15.4 ultra-low power wireless transceiver with fully bi-directional communication
Band: ISM band 2.405 to 2.48 GHz
Maximum Output Power: +0dBm typical
Receiver Sensitivity (OM-CP-RFC1000-EXT): -95dBm typical
Range: 610 m (2000') maximum outdoors (line of sight unobstructed); 152 m (500') maximum indoors (typical urban)

GENERAL
Reading Rate: 1 reading every second up to 1 reading every 24 hours
Memory: 32,256 readings
LED Functionality:
• Green LED blinks every 5 seconds to indicate unit is logging
• Blue LED blinks every 15 seconds to indicate unit is in wireless mode
• Red LED blinks every 1 second to indicate alarm condition
Memory Wrap Around: Yes
Start Modes: Immediate start
Calibration: Digital calibration through software
Calibration Date: Automatically recorded within device
Battery Type: 9V lithium battery included; user replaceable
Battery Life: 5 years typical at 1 minute reading rate

Data Format:
• For Display: °C or °F
• For Software: Date and time stamped °C, K, °F, or °R

Time Accuracy: ±1 minute/month

Computer Interface: USB to mini USB, 250,000 baud for standalone operation or OM-CP-RFC1000-EXT required for wireless operation
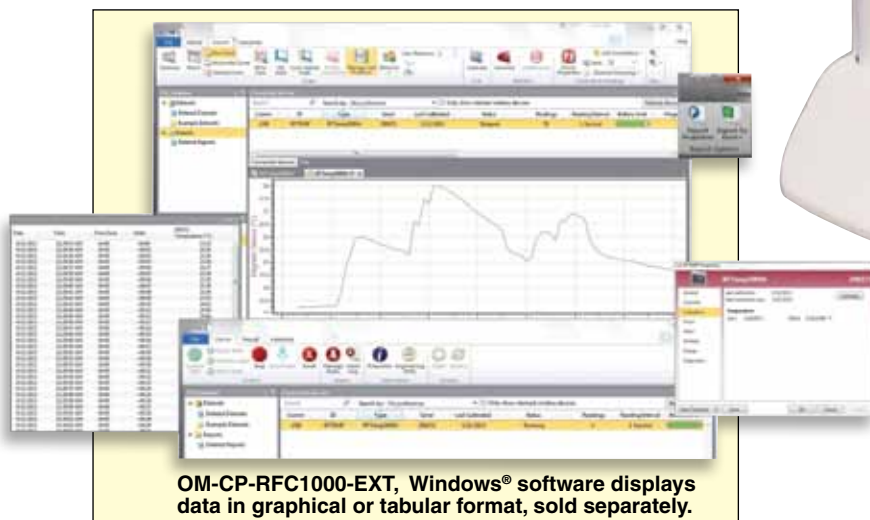
Software: XP SP3/Vista/7/8 (32- and 64-bit)

Operating Environment: -20 to 60°C (-4 to 140°F), 0 to 95% RH non-condensing

Dimensions: 82.6 H x 88.9 W x 24.1 mm D (3.25 x 3.5 x 0.95") data logger only

Weight: 116 g (4.1 oz)

Enclosure Material: ABS plastic

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

OM-CP-RFTEMP2000A shown smaller than actual size.

Alarm: Programmable high and low limits; alarm is activated when temperature reaches or exceeds set limits

Alarm Delay: A cumulative alarm delay may be set in which the device will activate the alarm (via LED) only when the device has recorded a user specified time duration of data

Audible Alarm Functionality: 1 beep per second for reading alarm above/below threshold

Note: Because of transmission frequency regulations, OM-CP-RFTEMP2000A wireless data loggers are only approved for use in the following countries: Australia, Austria, Belgium, Bulgaria, Canada, Chile, China, Columbia, Croatia, Cyprus, Czech Republic, Denmark, Ecuador, Estonia, Finland, France, Germany, Greece, Honduras, Hungary, Iceland, Ireland, Israel, Japan, Latvia, Liechtenstein, Lithuania, Luxembourg, Malaysia, Malta, Mexico, New Zealand, Norway, Peru, Poland, Portugal, Romania, Saudi Arabia, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Thailand, The Netherlands, Turkey, United Kingdom, United States, Venezuela, Vietnam.

To Order

Model No.	Description
OM-CP-RFTEMP2000A	Wireless temperature data logger with LCD display
OM-CP-RFTEMP2000A-CERT	Wireless temperature data logger with LCD display and 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-BAT103	Replacement 9V lithium battery

*Comes complete with 9V lithium battery and mounting bracket. 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).*

***Ordering Example: OM-CP-RFTEMP2000A,** wireless temperature data logger with LCD display, and **OM-CP-RFC1000-EXT,** wireless transceiver package.*