



Wireless Temperature Data Logger with Display

OM-CP-RFTEMP2000A



- ✓ 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



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

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

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



OM-CP-RFTEMP2000A shown smaller than actual size.



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

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

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

To Order Visit omega.com/om-cp-rftemp2000a for Pricing and Details

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-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.