



OM-CP-RFRTDTEMP101A Precision Temperature Recorder and Wireless Transmitter Part of the NOMAD® Family

Starts at
\$329



- ✓ 100Ω Pt RTD Input
- ✓ Multiple Transmitter Configurations
- ✓ Memory Wrap Around
- ✓ Software Configurable
- ✓ Real-Time Operation
- ✓ Programmable Start Time

The OM-CP-RFRTDTEMP101A is a battery powered precision temperature recorder and wireless transmitter. This is an all-in-one compact, portable, easy to use device that will measure and record up to 5,461 measurements. The OM-CP-RFRTDTEMP101A combines the features from the standard product line and adds the convenience of a wireless transmitter. When enabled, the wireless transmitter will transmit readings back to the host computer where the data can be analyzed in real time. These readings are also logged to the device's memory for added data security. The convenient slide switch allows the transmitter to be turned on or off without affecting the operation of the device.

The device can be started, stopped and configured directly from your computer. Its small size allows it to fit almost anywhere. In addition to the wireless communications, the OM-CP-RFRTDTEMP101A makes data retrieval quick and easy. Simply plug the device into an available COM port and our user-friendly software will handle the rest.

Specifications

TEMPERATURE**

Measurement Range:

-200 to 850°C (-328 to 1562°F)

Resolution: 0.01°C

Calibrated Accuracy:

±0.05°C @ 25°C

Specified Accuracy Range:

-200 to 850°C (-328 to 1562°F)

RESISTANCE

Nominal Range: 0 to 5000 Ω

Resistance Resolution: 0.001 Ω

Calibrated Accuracy: ±0.015 Ω

Specified Accuracy Range:

0 to 500 Ω at 25°C

Input Connection:

Removable screw terminal;

2, 3 or 4 wire interface

Temperature Effect on Span:

<25 ppm/°C; <10 ppm/°C typical

Temperature Effect on Offset:

<10 ppm over -30 to 70°C

Memory: 5461 readings

Reading Interval: 1 reading every 30 seconds to one reading every 12 hours

Calibration:

Digital calibration

through software

Calibration Date:

Automatically recorded

within device

Time Accuracy:

±1 minute/month

(at 20 to 30°C)

Computer Interface:

PC serial, RS-232C

COM or USB (interface

cable required);

57,600 baud

RF Baud Rate:

4800 baud

RF Carrier Frequency:

418 MHz

Range: Up to 36 m

(120') line of sight

Approvals: US (FCC), CA (IC)

Power: 3.6 V lithium battery included

Battery: 1 year typical

(1 min reading rate @ 25°C)

Software: XP SP3/Vista and 7

(32-bit and 64-bit)

Operating Environment:

-30 to 70°C (-22 to 158°F),

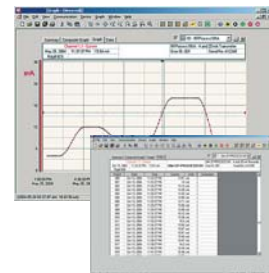
5 to 95% RH non-condensing

Dimensions:

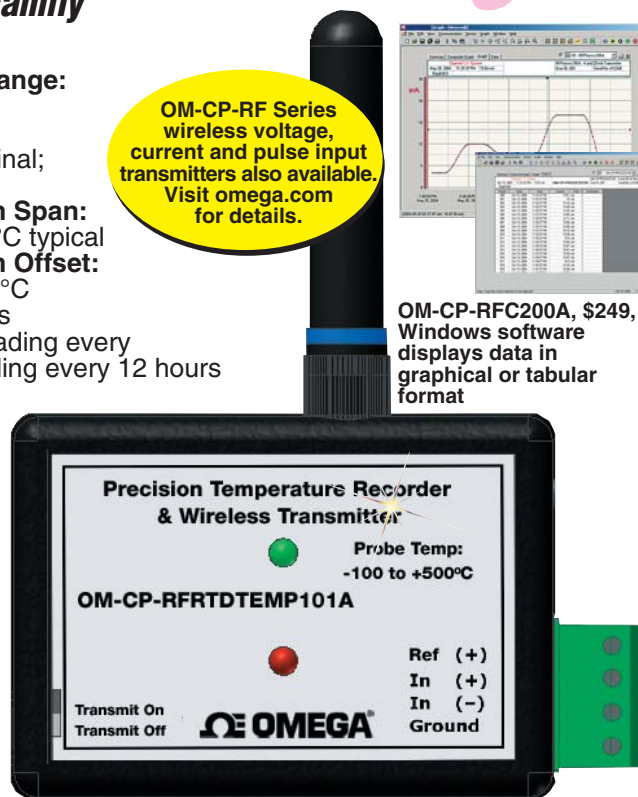
42 H x 59 W x 20 mm D

(1.7 x 2.3 X 0.8")

OM-CP-RF Series wireless voltage, current and pulse input transmitters also available. Visit omega.com for details.



OM-CP-RFC200A, \$249, Windows software displays data in graphical or tabular format



OM-CP-RFRTDTEMP101A, \$449, shown smaller than actual size

Weight: 60 g (2 oz)

Start Time: Software programmable start time (up to 6 months in advance)

Real-Time Recording: May be used with PC to monitor and record data in real time

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

**Temperature specifications based on 100 ΩPt RTD compliant with IEC 751 (1983) and ITS-90, $\alpha = 0.00385$

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
OM-CP-RFRTDTEMP101A	\$329	Wireless temperature data logger
OM-CP-RFRTDTEMP101A-CERT	389	Wireless temperature data logger with NIST calibration certificate
OM-CP-RFC101A	199	Receiver package includes RF receiver, 1.2 m (4') RS-232 cable with DB9F termination, Windows software and operator's manual
OM-CP-RFC200A	249	Receiver package includes RF receiver, 3.7 m (12') USB cable, Windows software and operator's manual
OM-CP-BAT105	12	Replacement 3.6 V lithium battery
OM-CP-CONNECTOR-4	8	Replacement 4 position terminal block connector

The OM-CP-RFC101A receiver package is required to operate the wireless transmitter.

Ordering Example: OM-CP-RFRTDTEMP101A-CERT precision temperature recorder with NIST calibration certificate and OM-CP-RFC200A Windows software and USB cable with receiving antenna, \$389 + 199 = \$588.



UNITED STATES

www.omega.com
1-800-TC-OMEGA
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CANADA

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1-800-TC-OMEGA

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• 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

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• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

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• 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