

Precision Temperature Data Loggers Part of the NOMAD® Family

OM-CP-RTDTEMP101 and
OM-CP-RTDTEMP110

Starts at
\$399

- 100 Ω Pt RTD Input
- 0.01°C Resolution
- Programmable Start Time
- Miniature Size
- User Calibration through Software
- Real Time Operation

The OM-CP-RTDTEMP101 and OM-CP-RTDTEMP110 are precision, battery powered, stand-alone, temperature data loggers. These all-in-one compact, portable, easy-to-use devices will measure and record up to 21,845 temperature measurements with a resolution of 0.01°C. These data loggers are a major leap forward in accurate temperature measurement performance. The real time clock ensures that all data is time and date stamped. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. Its small size allows it to fit almost anywhere. Data retrieval is simple. Plug it into an available COM port and our easy to use software does the rest. The Windows software converts your PC into a real time strip chart recorder. Data can be printed in graphical or tabular format and can also be exported to a text or Microsoft Excel file.

Specifications

Input Type 100 Ω Pt RTD,
 $\alpha = 0.00385$

Temperature Measurement Range:
-200 to 850°C (-328 to 1562°F)

Calibrated Temperature Accuracy:
±0.05°C (0.015 Ω)

(does not include RTD error)

Temperature Resolution: 0.01°C

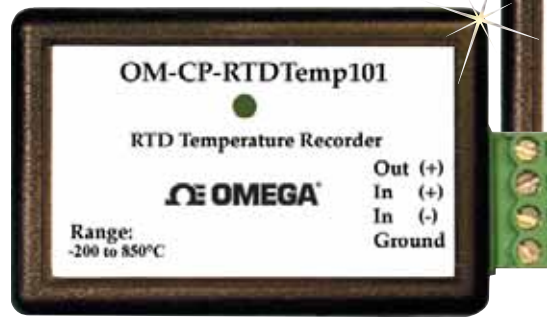
Temperature Calibration: Digital calibration is available in software

Memory: 21,845 readings

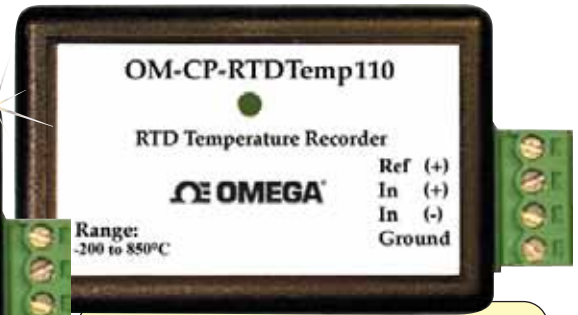
Input Connection: 2, 3 or 4 wire screw terminal connector

Calibration Date: Automatically recorded within device to alert user when calibration is required

Recording Interval: 2 seconds to 12 hours, selectable through software



OM-CP-RTDTEMP101, \$399, & OM-CP-RTDTEMP110, \$499, data logger shown larger than actual size.



Start Time: Start time and date are programmable through software

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

Visual Indicator: LED flashes at selected reading rate

Time Accuracy: ±1 minute per month at 20°C

Power: 3.6 V lithium battery (included)

Battery Life:

OM-CP-RTDTEMP101: 1 year at 1 min reading rate

OM-CP-RTDTEMP110: 10 years at 15 min reading rate

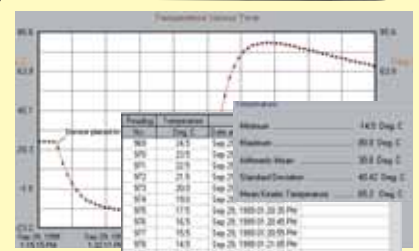
Data Format: Date and time stamped, °C, °F, °K, °R, Ω

Computer Interface: PC serial, USB or RS-232C COM

Communications:

OM-CP-RTDTEMP101: 2400 baud

OM-CP-RTDTEMP110: 57600 baud



OM-CP-IFC110, \$99, Windows software displays data in graphical or tabular format.

Software: Windows 95/98/NT/2000/XP

Operating Environment:

-40 to 80°C (-40 to 176°F)

0 to 95% RH non-condensing

Dimensions:

OM-CP-RTDTEMP101:
36 H x 56 W x 16 mm D
(1.4 x 2.2 x 0.6")

OM-CP-RTDTEMP110:
43 H x 69 W x 20 mm D
(1.7 x 2.7 x 0.8")

Weight:

OM-CP-RTDTEMP101: 30 g (1 oz)

OM-CP-RTDTEMP110: 60 g (2 oz)

Material: ABS plastic

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Description
OM-CP-RTDTEMP101	\$399	Precision temperature data logger
OM-CP-RTDTEMP101-CERT	\$459	Precision temperature data logger with NIST calibration certificate
OM-CP-RTDTEMP110	499	Precision temperature data logger with 10-year battery life
OM-CP-RTDTEMP110-CERT	559	Precision temperature data logger with 10-year battery life and NIST calibration certificate
OM-CP-IFC110	99	Windows software and 1.2 m (4') RS-232 cable with DB9F termination
OM-CP-IFC200	119	Windows software and 3.7 m (12') USB interface cable
OM-CP-BAT105	12	Replacement 3.6 V lithium battery
OM-CP-CONNECTOR-4	8	Replacement 4 position terminal block connector

Operator's manual, battery and RS-232 cable are included with the **OM-CP-IFC110** Windows software. (NIST calibration requires RTD sensor to be calibrated with the logger). **Ordering Example:** OM-CP-RTDTEMP101-CERT, precision temperature recorder with NIST calibration certificate, OM-CP-IFC110, Windows software and RS-232 cable with DB9F termination, \$459 + 99 = \$558.



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
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk
Manchester, England
0800-488-488

FRANCE

www.omega.fr
Guyancourt, France
088-466-342

CZECH REPUBLIC

www.omegaeng.cz
Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl
Amstelveen, NL
0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, 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, Wire

• 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

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

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, Strain Gages, 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