Precision RTD Temperature Data Logger
Part of the NOMAD® Family

OM-CP-RTDTEMP2000

5 YEAR WARRANTY NIST
Optional

- **Large, Backlit LCD Display**
- **Front Keypad with Lock Feature**
- **High Speed Download**
- **Real-Time Operation**
- **User-Selectable Measurement Units**
- **NIST Traceable Calibration**
- **Min/Max and Average Statistics**
- **Programmable Start/Stop Time**
- **Convenient Status Indicators**
- **User Replaceable Battery and External Power**
- **Wall Mountable**

OM-CP-RTDTEMP2000 data logger shown actual size.

The OM-CP-RTDTEMP2000 is a battery powered precision RTD temperature recorder, with a LCD display. It is perfect for applications requiring precise temperature readings.

The 8-button keypad and large LCD provide convenient access to current data and recorder setup. Additionally, memory and battery levels, external power status, and sampling and recording status are shown on the LCD.

Available on-screen data includes: statistics (min, max, average); recording status (start, stop and recording rate); display options (units, text size); and calibration information (date calibrated, date for recalibration). Statistics can be cleared at any time during logging.

With 174,762 readings, the OM-CP-RTDTEMP2000 has one of the largest memory capacities of any similar data recorder on the market. The non-volatile memory will retain recorded data, even if AC and battery power are lost.

The OM-CP-RTDTEMP2000 runs on a 9 V battery with a typical battery life of 1 year at a 1 min reading rate with the display off. With continuous LCD and no backlight usage, the average battery life is 30 days. For power savings, both the LCD and backlight have configurable auto-off options.

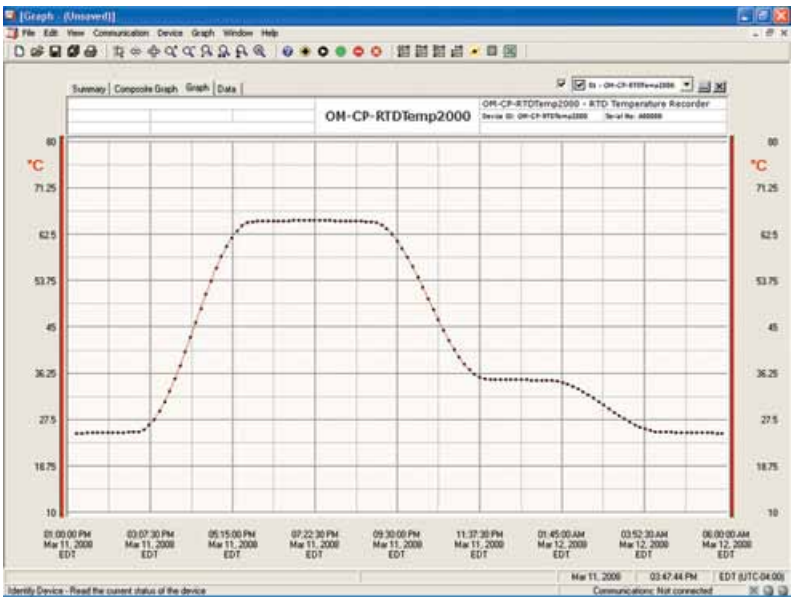
Those wanting to keep the LCD display and backlight continuously active need only to connect the unit to an AC power supply, keeping the 9 V battery connected as a back-up.

NIST traceable calibration is available for users needing to meet regulatory requirements. Creating permanent records, performing data calculations, and the graphing of data is quick and easy: Simply connect the interface cable to an available USB or serial port and with a few clicks of the mouse, data is downloaded and ready for review or export to Excel.

Specifications

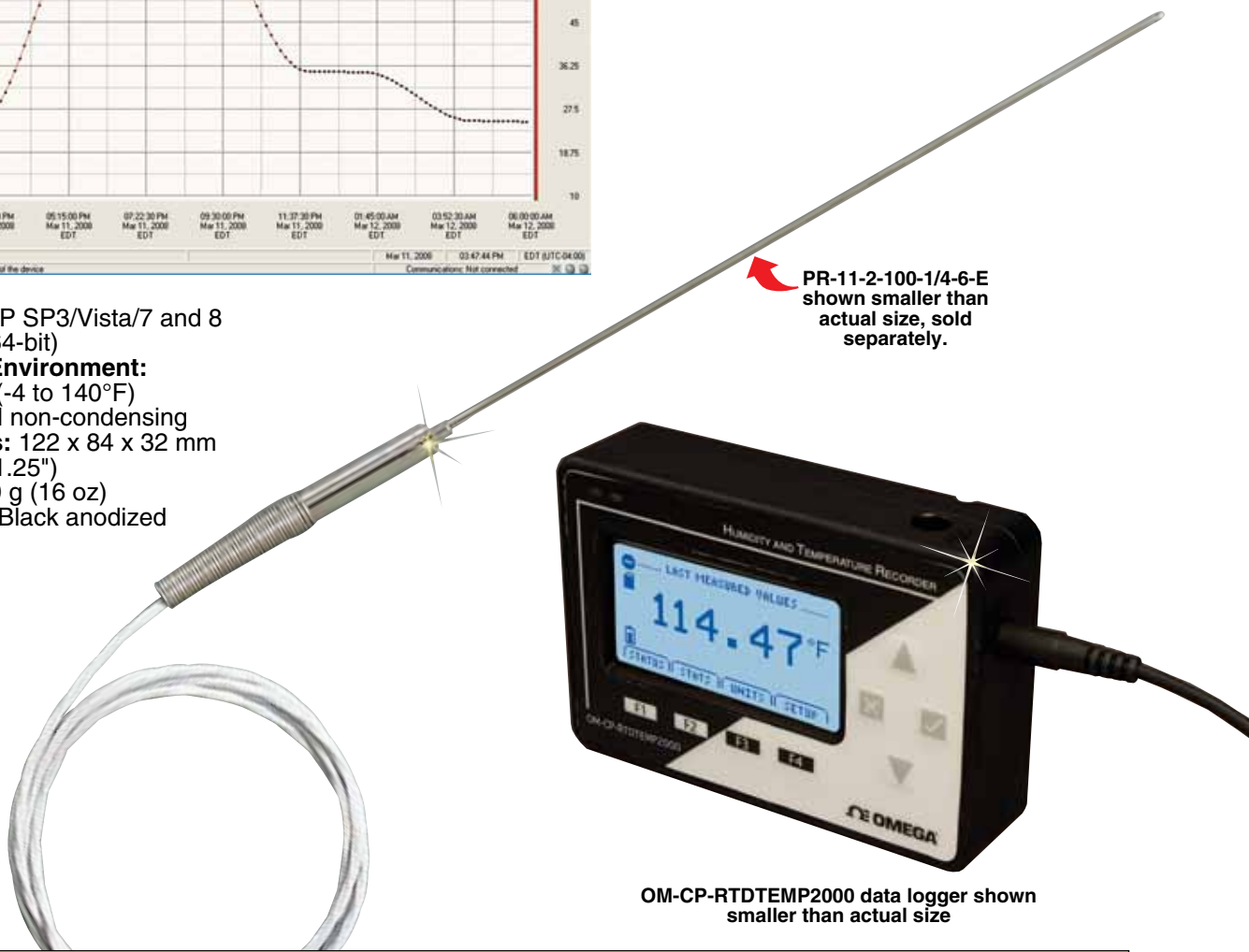
TEMPERATURE PROBE
Measurement Range: -200 to 850°C (-328 to 1562°F)
Input Type: 100 Ω Pt RTD, α = 0.00385
Input Connection: 2, 3, or 4-wire scew terminal block
Resolution: 0.01°C
Probe Calibrated Accuracy: ±0.05°C (-200 to 260°C) ±0.3°C (260 to 850°C)
Specified Accuracy Range: -200 to 850°C (-328 to 1562°F)

DOT-MATRIX LCD
Dimensions: 63 x 35 mm (2.5 x 1.375")
Text: Configurable channel text size
Indicators: Power, status, memory
Backlight: Configurable w/auto shut-off and contrast adjustment
Start/Stop Time: Software programmable start time and date, up to six months in advance; programmable stop time
Memory: 174,762 total readings; software configurable memory wrap
Reading Rate: 1 reading every 2 seconds to 1 every 24 hours
Calibration: Digital calibration through software
Calibration Date: Automatically recorded within device
Battery Type: 9 V lithium battery (included), user replaceable; optional AC adaptor
Battery Life: 1 year battery life at 1 min reading rate with display off. 30 days typical with continuous LCD and no backlight usage.
Data Format: Date and time stamped °C, °F, K, °R
Time Accuracy: ±1 minute/month (at 20 to 30°C)
Computer Interface: PC serial or USB (interface cable required); 115,200 baud



OM-CP-IFC200 Windows® software displays data in graphical or tabular format.

Software: XP SP3/Vista/7 and 8 (32-bit and 64-bit)
Operating Environment: -20 to 60°C (-4 to 140°F) 0 to 95% RH non-condensing
Dimensions: 122 x 84 x 32 mm (4.8 x 3.3 x 1.25")
Weight: 440 g (16 oz)
Enclosure: Black anodized aluminum



PR-11-2-100-1/4-6-E shown smaller than actual size, sold separately.

OM-CP-RTDTEMP2000 data logger shown smaller than actual size

To Order

Model No.	Description
OM-CP-RTDTEMP2000	Precision temperature data logger
OM-CP-RTDTEMP2000-CERT	Precision temperature data logger with NIST calibration certificate
OM-CP-IFC200	Windows software and 1.8 m (6') USB interface cable
OM-CP-SVP-SYSTEM	FDA 21 CFR part 11 compliant IQ/OQ/PQ secure software validation workbook and software package (unlimited users, license per computer)
OM-CP-BAT103	Replacement 9 V lithium battery
OM-CP-110-PWR-2000	110 Vac power adaptor
OM-CP-220-PWR-2000	220 Vac power adaptor

Comes complete with 9V lithium battery. Operator's manual and USB cable are included with the OM-CP-IFC200 (required to operate the data logger and is sold separately)
***Ordering Example: OM-CP-RTDTEMP2000-CERT,** precision temperature data logger with NIST calibration certificate and **OM-CP-IFC200,** Windows software and USB interface cable.*

To Order, Call 1-800-327-4333SM or 1-800-DAS-IEEE or Shop Online at omega.comSM