8-Channel Temperature Data Loggers
Part of the NOMAD® Family

OM-CP-OCTTEMP-A

- Automatic Cold Junction Compensation
- Programmable Start Time
- 8 Thermocouple Channels and 1 Ambient
- User Calibration through Software
- Automatic Thermocouple Linearization
- External Power or User Replaceable Battery
- Real-Time Operation

The OM-CP-OCTTEMP-A is an 8-channel, battery-powered, stand-alone, thermocouple-based temperature data logger.

The OM-CP-OCTTEMP2000 is the same 8-channel thermocouple data logger but with an LCD display. The OM-CP-OCTTEMP2000 features on screen minimum, maximum and average statistics, as well as a user configurable graphics screen that allows for any combination of channels to be displayed.

These all-in-one compact, portable, easy to use devices will measure and record up to 500,000 temperature measurements per channel (channels can be disabled to increase memory).

Specifications

Internal Channel: 1
Temperature Accuracy: ±0.5°C (0 to 50°C), ±0.9°F (32 to 122°F)
Temperature Resolution: 0.05°C
Temperature Range: -20 to 60°C (-4 to 140°F)
Thermocouple Channels: 8
Thermocouple Input Types: J, K, T, E, R, S, B, N
Thermocouple Connection: Subminiature female jack
Cold Junction Compensation: Automatic, based on internal channel
Maximum Thermocouple Resistance: 1000Ω, 100Ω recommended
External Thermocouple Channel Accuracy* (Uniform 20°C Internal Temperature):
- J, K, T, E, N: ±0.5°C
- R, S, B: ±2.0°C

* Accuracy does not include errors due to thermocouple.
Resolution:
J, K, T, E, N: 0.1°C
R, S, B: 0.5°C

Thermocouple Types and Ranges:
Type J: -210 to 760°C
(-346 to 1400°F)
Type K: -260 to 1370°C
(-436 to 2498°F)
Type T: -260 to 400°C
(-436 to 752°F)
Type E: -260 to 980°C
(-436 to 1796°F)
Type R: 50 to 1760°C
(-58 to 3200°F)
Type S: 50 to 1760°C
(-58 to 3200°F)
Type B: 60 to 1820°C
(140 to 3308°F)
Type N: -260 to 1300°C
(-436 to 2372°F)

Memory: 500,000 readings/channel (channels can be disabled to increase memory)

Temperature Calibration:
Digital calibration is available through software
Calibration Date: Automatically recorded within device to alert user when calibration is required
Recording Interval: 4/sec to 1/day selectable in software
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

Power: 9V lithium battery (included) or external power via included AC adaptor, data logger switches to battery power if AC power is lost

Battery Life (@ 25°C and 10 min recording interval):
OM-CP-OCTTEMP-A:
18 months typical
OM-CP-OCTTEMP2000:
18 months typical with display and backlight off, 4 months typical with continuous display use (backlight off)

Time Accuracy: ±1 min/month when RS-232 port is not in use

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

Computer Interface: PC serial, RS-232C COM or USB (interface cable required); 115,200 baud

Software: Windows® XP SP3/Vista/7 and 8 (32- and 64-bit)

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

Dimensions:
OM-CP-OCTTEMP-A:
68 H x 183 W x 32 mm D (2.7 x 7.24 x 1.26”)
OM-CP-OCTTEMP2000:
68 H x 183 W x 36 mm D (2.7 x 7.24 x 1.39”)

Weight:
OM-CP-OCTTEMP-A:
490 g (17.3 oz)
OM-CP-OCTTEMP2000:
480 g (16.9 oz)

Material: Black anodized aluminum

To Order

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>OM-CP-OCTTEMP-A</td>
<td>8-channel temperature data logger (includes universal 120/230 Vac, 50/60 Hz AC adaptor)</td>
</tr>
<tr>
<td>OM-CP-OCTTEMP-A-CERT</td>
<td>8-channel temperature data logger with NIST calibration certificate (includes universal 120/230 Vac, 50/60 Hz AC adaptor)</td>
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<tr>
<td>OM-CP-OCTTEMP2000</td>
<td>8-channel temperature data logger with display (includes universal 120/230 Vac, 50/60 Hz AC adaptor)</td>
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<tr>
<td>OM-CP-OCTTEMP2000-CERT</td>
<td>8-channel temperature data logger with display and NIST calibration certificate (includes universal 120/230 Vac, 50/60 Hz AC adaptor)</td>
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<tr>
<td>OM-CP-IFC200</td>
<td>Windows software and 1.8 m (6’) USB interface cable</td>
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<tr>
<td>OM-CP-BAT103</td>
<td>Replacement 9V lithium battery</td>
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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).

OM-CP-OCTTEMP-A, 8-channel, thermocouple-based temperature data logger.