

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



Plug in  
up to 8  
probes

OM-CP-OCTTEMP-A data logger,  
shown smaller than actual size.  
KTSS-HH probe sold separately.

### 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).

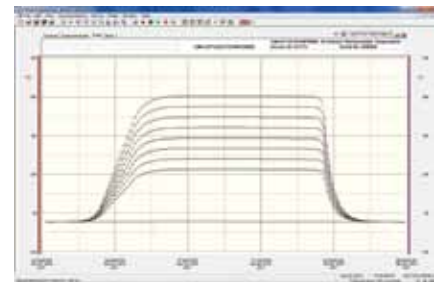
Remote Temperature Channel	
Minimum .....	64.4 Deg. F
Maximum .....	602.4 Deg. F
Arithmetic Mean .....	427.7 Deg. F
Standard Deviation .....	136.3 Deg. F
Mean Kinetic Temperature .....	501.9 Deg. F
Ambient Temperature Channel	
Minimum .....	70.7 Deg. F
Maximum .....	89.6 Deg. F
Arithmetic Mean .....	80.6 Deg. F
Standard Deviation .....	5.8 Deg. F
Mean Kinetic Temperature .....	81.8 Deg. F

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

The OM-CP-OCTTEMP-A and OM-CP-OCTTEMP2000 are a major leap forward in both size and 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.

The data logger's small size allows it to fit almost anywhere. Data retrieval is simple. Plug it into an available COM port and our easy-to-use Windows® software does the rest. The software converts your PC into a real-time strip chart recorder. Data can be printed in graphical or tabular format and can be exported to a text or Microsoft file.



### Specifications

- Internal Channel: 1**
- Temperature Accuracy:**  $\pm 0.5^{\circ}\text{C}$  (0 to  $50^{\circ}\text{C}$ ),  $\pm 0.9^{\circ}\text{F}$  (32 to  $122^{\circ}\text{F}$ )
- Temperature Resolution:**  $0.05^{\circ}\text{C}$
- Temperature Range:**  $-20$  to  $60^{\circ}\text{C}$  ( $-4$  to  $140^{\circ}\text{F}$ )
- 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:**  $1000\Omega$ ,  $100\Omega$  recommended
- External Thermocouple Channel Accuracy\* (Uniform  $20^{\circ}\text{C}$  Internal Temperature):**
  - J, K, T, E, N:  $\pm 0.5^{\circ}\text{C}$
  - R, S, B:  $\pm 2.0^{\circ}\text{C}$

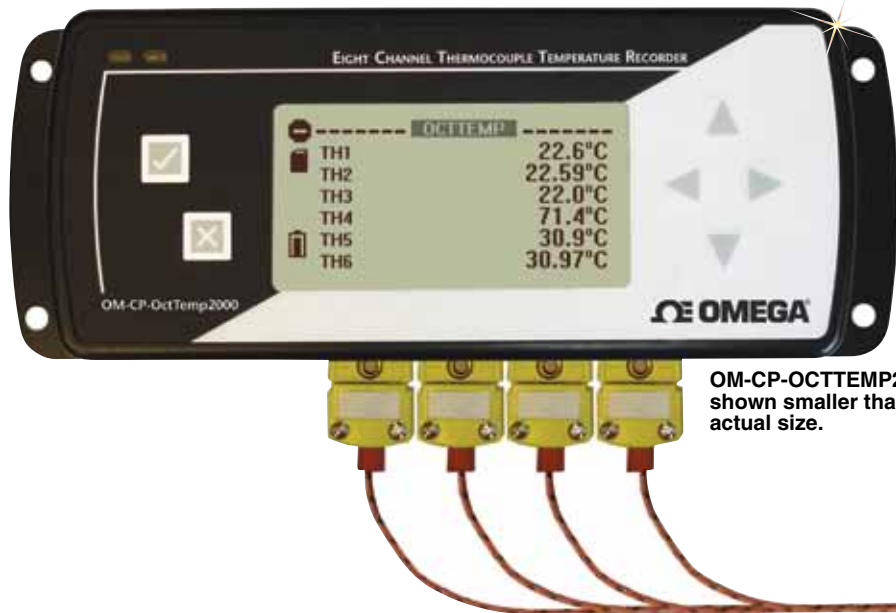
\* Accuracy does not include errors due to thermocouple.

**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)



OM-CP-OCTTEMP2000, shown smaller than actual size.

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

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 Examples:** **OM-CP-OCTTEMP-A-CERT**, 8-channel, thermocouple-based temperature data logger with NIST calibration certificate, **OM-CP-IFC200**, Windows software and USB cable.

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