

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



OM-CP-QUADTEMP-A



Plug in up to 4 probes

OM-CP-QUADTEMP-A shown smaller than actual size.

KTSS-HH probe sold separately.

- ✓ 4 Thermocouple Channels and 1 Ambient Channel
- ✓ Real Time Operation
- ✓ Programmable Start Time
- ✓ Automatic Cold Junction Compensation and Linearization
- ✓ External Power or User Replaceable Battery

The OM-CP-QUADTEMP-A is a 4-channel, battery powered, stand-alone, thermocouple based temperature data logger.

The OM-CP-QUADTEMP2000 is the same 4-channel thermocouple data logger but with an LCD display. The OM-CP-QUADTEMP2000 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 readings per channel (channels can be disabled to increase memory).

The OM-CP-QUADTEMP-A and OM-CP-QUADTEMP2000 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 nonvolatile 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 USB port and the 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 also be exported to a text or Microsoft Excel file.

Specifications

INTERNAL CHANNEL TEMPERATURE SENSOR

Calibrated Accuracy: $\pm 0.5^{\circ}\text{C}$ (0 to 50°C) $\pm 0.9^{\circ}\text{F}$ (32 to 122°F)
Temperature Resolution: 0.05°C
Temperature Range: -20 to 60°C (-4 to 140°F)

EXTERNAL THERMOCOUPLE CHANNELS

Accuracy:* (Uniform 20°C Internal Temperature):

J, K, T, E, N: $\pm 0.5^{\circ}\text{C}$
R, S, B: $\pm 2.0^{\circ}\text{C}$

Temperature Resolution:

J, K, T, E, N: 0.1°C
R, S, B: 0.5°C

Thermocouple Connection:

Female subminiature connectors

Cold Junction Compensation:

Automatic, based on internal channel

Maximum Thermocouple Resistance:

1000Ω , 100Ω recommended

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)

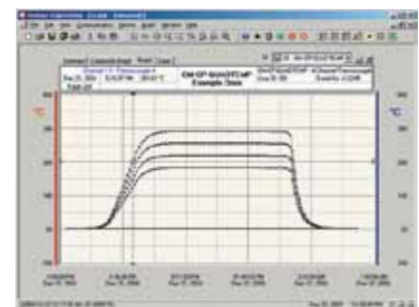
Type E: -260 to 980°C (-436 to 1796°F)

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)

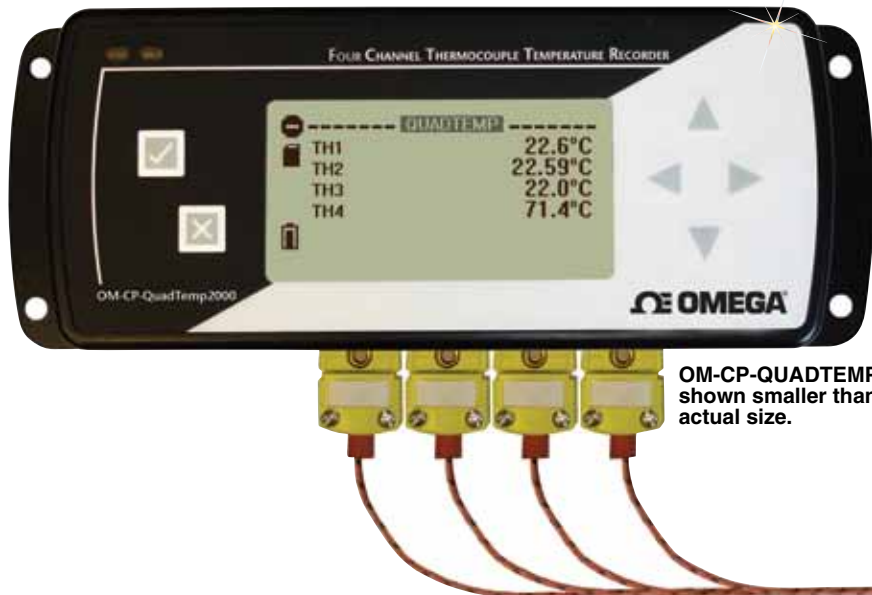


OM-CP-IFC200, Windows software displays data in graphical or tabular format.

*Accuracy does not include errors due to thermocouple.



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



OM-CP-QUADTEMP2000, shown smaller than actual size.

GENERAL SPECIFICATIONS

Temperature Calibration:

Digital calibration is available through software

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

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

Power: 9V lithium battery (included) or external power via included ac adaptor

Battery Life:

OM-CP-QUADTEMP-A:
18 months typical

OM-CP-QUADTEMP2000:
18 months typical with display off,
3 months typical with continuous display use

Time Accuracy: ±1 min/month when RS232C port is not in use

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

Computer Interface:
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),
0 to 95% RH non-condensing

Dimensions:

OM-CP-QUADTEMP-A;
68 H x 183 W x 26 mm D
(2.7 x 7.24 x 1.02")

OM-CP-QUADTEMP2000;
68 H x 183 W x 29 mm D
(2.7 x 7.24 x 1.14")

Weight:

OM-CP-QUADTEMP-A;
430 g (15.2 oz)

OM-CP-QUADTEMP2000:
420 g (14.8 oz)

Material: Black anodized aluminum

To Order

Model No.	Description
OM-CP-QUADTEMP-A	4-channel temperature data logger (includes universal 120/230 Vac 50/60 Hz AC adaptor)
OM-CP-QUADTEMP-A-CERT	4-channel temperature data logger with NIST calibration certificate (includes universal 120/230 Vac 50/60 Hz AC adaptor)
OM-CP-QUADTEMP2000	4-channel temperature data logger with display (includes universal 120/230 Vac 50/60 Hz AC adaptor)
OM-CP-QUADTEMP2000-CERT	4-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** (software is required to operate the data logger and is sold separately).

Ordering Examples: **OM-CP-QUADTEMP-A-CERT** 4 channel temperature data logger with NIST calibration certificate and **OM-CP-IFC200** Windows software and USB cable. **OM-CP-QUADTEMP-A**, 4 channel temperature data logger.