

# Ambient Temperature and Thermocouple Data Loggers Part of the NOMAD® Family

## OM-CP-TC4000 and OM-CP-TC110

Starts at  
**\$199**



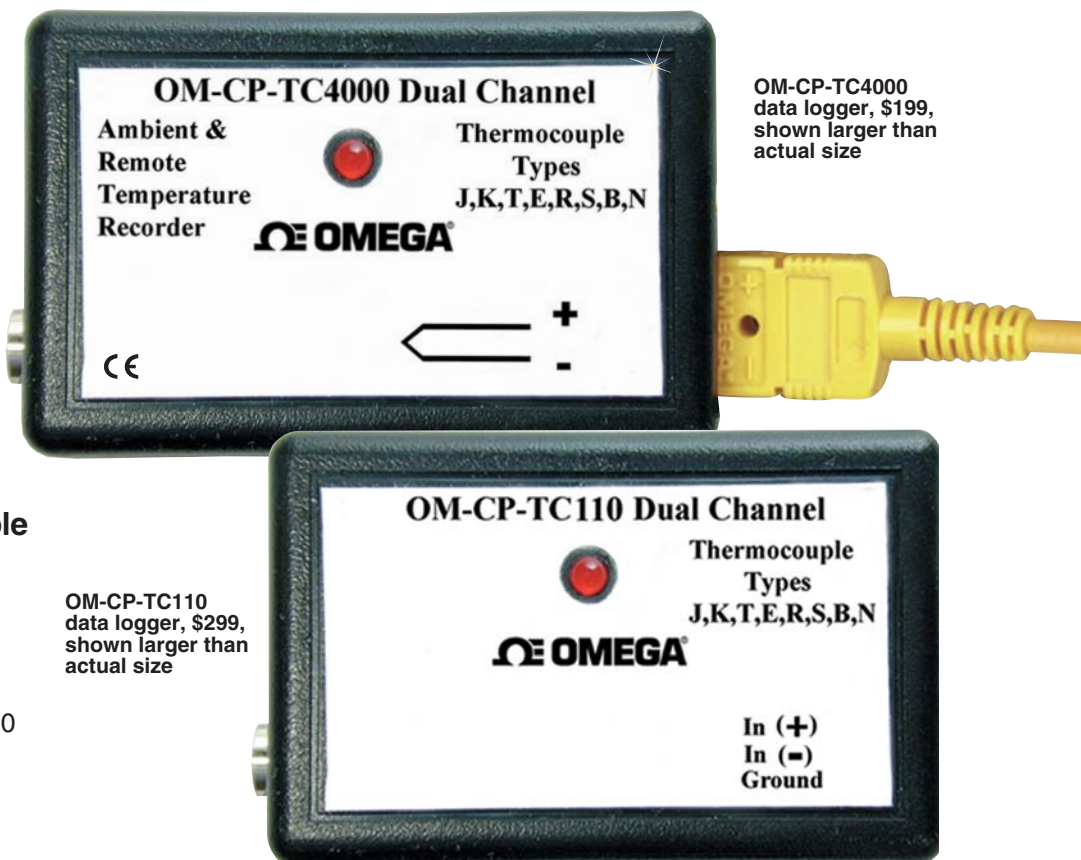
- Memory: 16,383 Ambient and 16,383 Remote Readings
- User Calibration Through Software
- Dual Channel Ambient and Remote
- Automatic Thermocouple Linearization
- Miniature Size
- Real-Time Operation

The OM-CP-TC4000 (CE approved) and OM-CP-TC110 (not CE approved) are miniature, battery-powered, standalone thermocouple-based temperature data loggers. These portable, easy-to-use devices will read and record up to 32,767 temperature measurements.

These data loggers represent a major leap 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.

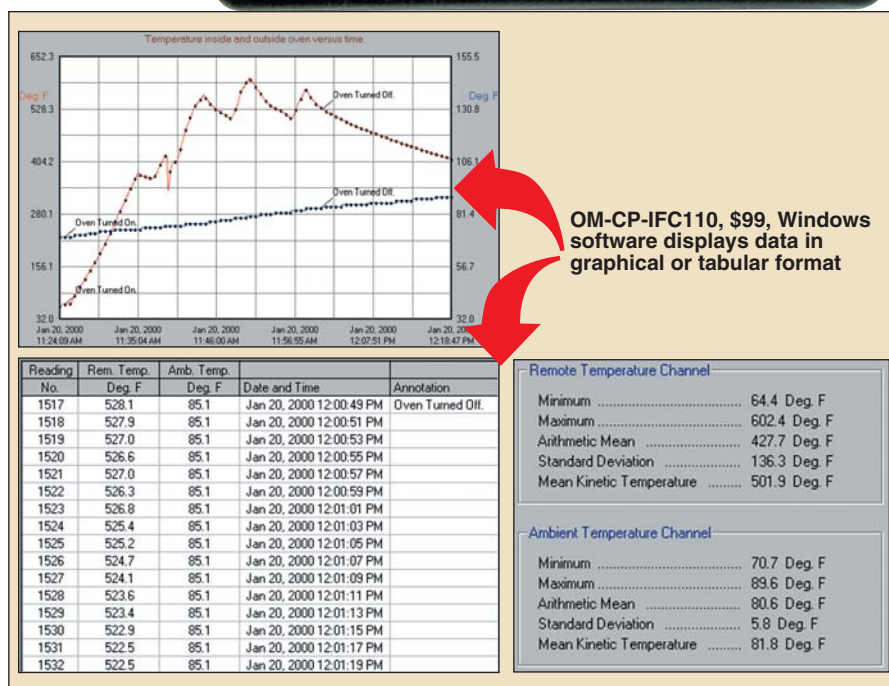
The small size of these devices allows them to fit almost anywhere. Data retrieval is simple. Plug either device into an empty COM port and our easy-to-use software does the rest. The software converts a PC into a real-time strip chart recorder. Data can be printed in graphical and tabular format and or exported to a text or Microsoft file.

\*OM-CP-TC4000 is only CE approved.



OM-CP-TC4000 data logger, \$199, shown larger than actual size

OM-CP-TC110 data logger, \$299, shown larger than actual size



## Specifications

### INTERNAL CHANNEL

#### Temperature Accuracy:

$\pm 0.5^{\circ}\text{C}$  (0 to  $50^{\circ}\text{C}$ )

#### Temperature Resolution: $0.1^{\circ}\text{C}$

#### Temperature Range:

-40 to  $80^{\circ}\text{C}$  (-40 to  $176^{\circ}\text{F}$ )

### Remote Channel

#### Thermocouple Connection:

**OM-CP-TC4000:** Female subminiature thermocouple connector

#### **OM-CP-TC110:**

Screw terminals

### Cold Junction Compensation:

Automatic

### Temperature Calibration:

Digital calibration is available through software

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

### Recording Interval:

2 seconds to 12 hours 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

**Green Visual Indicator:** LED flashes at selected reading rate

**Power:** 3.6 V lithium battery included

### Battery Life:

#### **OM-CP-TC4000:**

1 year at 1 min reading rate

#### **OM-CP-TC110:**

10 years at 15 min reading rate

**Time Accuracy:**  $\pm 1$  minute/month when RS-232 port is not in use

**Data Format:** Date and time stamped;  $^{\circ}\text{C}$ ,  $^{\circ}\text{F}$ ,  $^{\circ}\text{K}$ ,  $^{\circ}\text{R}$

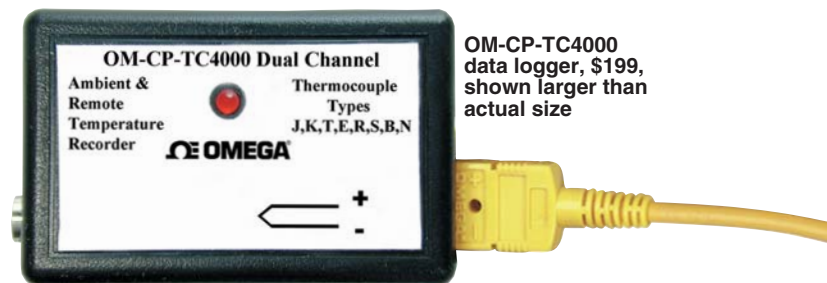
### Weight:

**OM-CP-TC4000:** 30 g (1 oz)

**OM-CP-TC110:** 60 g (2 oz)



OM-CP-TC110 data logger, \$299, shown larger than actual size



OM-CP-TC4000 data logger, \$199, shown larger than actual size

### Computer Interface:

PC serial, RS-232C COM or USB (interface cable required)

### Communications:

**OM-CP-TC4000:** 2400 baud

**OM-CP-TC110:** 57,600 baud

### Software:

WIN98/NT/2000/XP/VISTA 32-bit (VISTA 32-bit version only; VISTA 64-bit is not supported)

### Operating Environment:

-40 to  $80^{\circ}\text{C}$  (-40 to  $176^{\circ}\text{F}$ )

5 to 95% RH non-condensing

### Dimensions:

#### **OM-CP-TC4000:**

36 H x 56 W x 16 mm D (1.4 x 2.2 x 0.6")

#### **OM-CP-TC110:**

43 H x 69 W x 20 mm D (1.7 x 2.7 x 0.8")

### EXTERNAL THERMOCOUPLE CHANNEL

**Accuracy:**  $\pm 0.5^{\circ}\text{C}$  for types J, K, T, E, N;  $\pm 2.0^{\circ}\text{C}$  for types R, S, B, (does not include thermocouple error)

**Resolution:**  $0.1^{\circ}\text{C}$  for types J, K, T, E, N;

$0.5^{\circ}\text{C}$  for types R, S, B

### Range Type:

**J:** -210 to  $760^{\circ}\text{C}$

**K:** -270 to  $1370^{\circ}\text{C}$

**T:** -270 to  $400^{\circ}\text{C}$

**E:** -270 to  $980^{\circ}\text{C}$

**R:** -50 to  $1760^{\circ}\text{C}$

**S:** -50 to  $1760^{\circ}\text{C}$

**B:** 50 to  $1820^{\circ}\text{C}$

**N:** -270 to  $1300^{\circ}\text{C}$

**ALL MODELS AVAILABLE FOR FAST DELIVERY!**

To Order (Specify Model Number)		
Model No.	Price	Description
OM-CP-TC4000	\$199	Ambient temperature and thermocouple data logger with 1-year battery life (CE approved)
OM-CP-TC4000-CERT	259	Ambient temperature and thermocouple data logger with 1-year battery life (CE approved) and NIST calibration certificate
OM-CP-TC110	299	Ambient temperature and thermocouple data logger with 10-year battery life
OM-CP-TC110-CERT	359	Ambient temperature and thermocouple 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

Operator's manual and RS-232 cable are included with the OM-CP-IFC110 Windows software (required to operate the data logger and is sold separately).

**Ordering Example:** OM-CP-TC4000-CERT ambient temperature and thermocouple data logger with NIST calibration certificate and OM-CP-IFC110 Windows software with RS-232 cable, \$259 + 99 = \$358.



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