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

OM-CP-TC4000 and OM-CP-TC110

Starts at
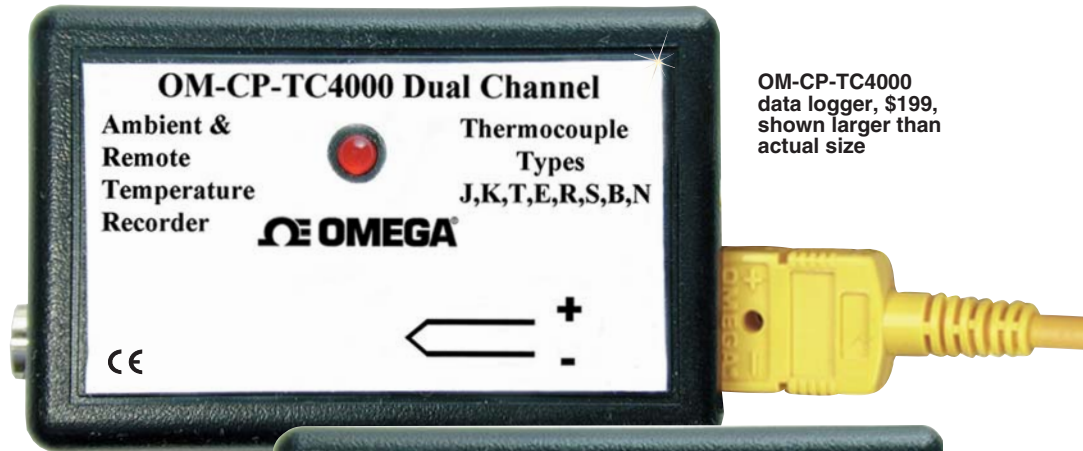**$199**

MADE IN USA · 5 YEAR WARRANTY · CE*

✔ **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

OM-CP-IFC110, $99, Windows software displays data in graphical or tabular format

Reading No.	Rem. Temp. Deg. F	Amb. Temp. Deg. F	Date and Time	Annotation
1517	528.1	85.1	Jan 20, 2000 12:00:49 PM	Oven Turned Off.
1518	527.9	85.1	Jan 20, 2000 12:00:51 PM	
1519	527.0	85.1	Jan 20, 2000 12:00:53 PM	
1520	526.6	85.1	Jan 20, 2000 12:00:55 PM	
1521	527.0	85.1	Jan 20, 2000 12:00:57 PM	
1522	526.3	85.1	Jan 20, 2000 12:00:59 PM	
1523	526.8	85.1	Jan 20, 2000 12:01:01 PM	
1524	525.4	85.1	Jan 20, 2000 12:01:03 PM	
1525	525.2	85.1	Jan 20, 2000 12:01:05 PM	
1526	524.7	85.1	Jan 20, 2000 12:01:07 PM	
1527	524.1	85.1	Jan 20, 2000 12:01:09 PM	
1528	523.6	85.1	Jan 20, 2000 12:01:11 PM	
1529	523.4	85.1	Jan 20, 2000 12:01:13 PM	
1530	522.9	85.1	Jan 20, 2000 12:01:15 PM	
1531	522.5	85.1	Jan 20, 2000 12:01:17 PM	
1532	522.5	85.1	Jan 20, 2000 12:01:19 PM	

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

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

Specifications

INTERNAL CHANNEL
Temperature Accuracy:
±0.5°C (0 to 50°C)
Temperature Resolution: 0.1°C
Temperature Range:
-40 to 80°C (-40 to 176°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
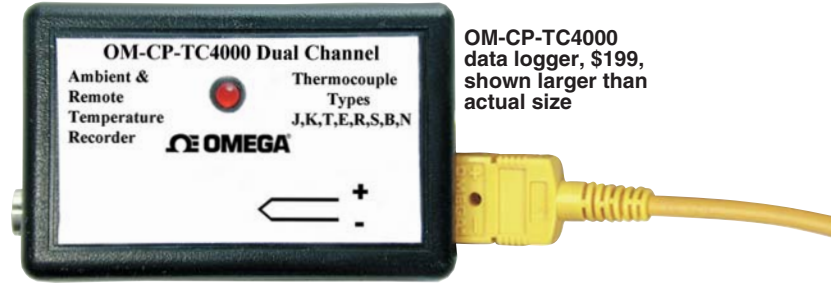 **OM-CP-TC110:** 10 years at 15 min reading rate
Time Accuracy: ±1 minute/month when RS-232 port is not in use
Data Format: Date and time stamped; °C, °F, °K, °R

Weight:
  OM-CP-TC4000: 30 g (1 oz)
  OM-OM-CP-TC110: 60 g (2 oz)
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: Windows 95/98/NT/2000/XP
Operating Environment:
-40 to 80°C (-40 to 176°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: ±0.5°C for types J, K, T, E, N; ±2.0°C for types R, S, B, (does not include thermocouple error)
Resolution: 0.1°C for types J, K, T, E, N; 0.5°C for types R, S, B
Range Type:
J: -210 to 760°C
K: -270 to 1370°C
T: -270 to 400°C
E: -270 to 980°C
R: -50 to 1760°C
S: -50 to 1760°C
B: 50 to 1820°C
N: -270 to 1300°C

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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 with10-year battery life
OM-CP-TC110-CERT	359	Ambient temperature and thermocouple data logger with10-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.

More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies,Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters

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