

OM-CP-THERMOVAULT Oven Temperature Data Logger

Part of the NOMAD® Family

\$999



Basic Unit

- ✓ Single Channel Thermocouple Input
- ✓ Programmable Start Time; Immediate or Date/Time
- ✓ Miniature Size
- ✓ Record Short Thermal Profiling Events

The OM-CP-THERMOVAULT is a thermally insulated, battery-powered, stand-alone data logger used for thermal profiling of events. This device can be used to record the temperature inside an oven for later downloading to a PC. This all-in-one, compact, portable, easy-to-use device will measure and record up to 16,383 temperature measurements. It can withstand an oven temperature of 752°F for 10 minutes when properly sealed. The OM-CP-THERMOVAULT is a major leap forward in both cost reduction and performance. Its 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 thermovault'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 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 Excel file.

Specifications

Thermocouple Connection:

Fixed 2 position screw terminal

Cold Junction Compensation:

Automatic

Accuracy* (based on internal channel at uniform 20°C):

J, K, T, E, N: ±0.5°C

R, S, B: ±2.5°C

Resolution:

J, K, T, E, N: 0.1°C

R, S, B: 0.5°C

Memory: 16,383 readings/channel

Temperature Measurement 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

Recording Interval:

2 seconds to 12 hours selectable in software

Start Time: Start time and date are programmable through software

Power: 3.6 V lithium battery included

Battery Life: 1 year typical

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

Computer Interface: PC serial, RS-232C COM or USB

Software:

WIN98/NT/2000/XP/VISTA 32-bit

(VISTA 32-bit version only;

VISTA 64-bit is not supported)

Operating Environment for Internal Data Logger:

-40 to 80°C (-40 to 176°F)

0 to 95% RH non-condensing

Operating Environment for OM-CP-THERMOVAULT System:

-40 to 400°C (-40 to 752°F)

0 to 95% RH non-condensing

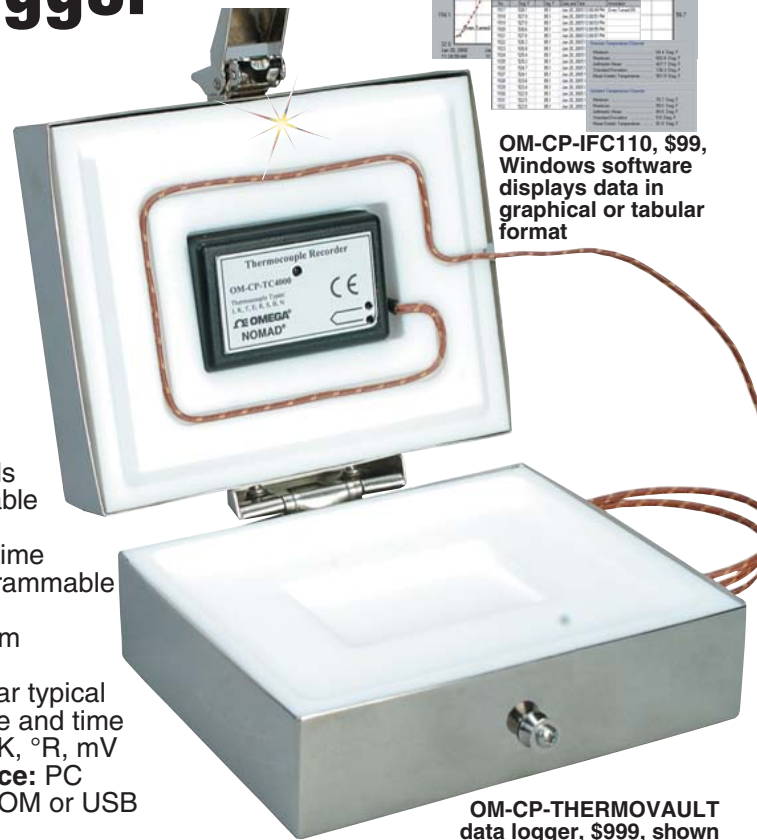
Dimensions: 76 H x 153 L x 102 mm D

(3 x 6 x 4")

Weight: 0.9 kg (2 lbs)

Enclosure (Thermal Box): Thermal insulators encased in stainless steel

Enclosure (Logger): ABS Plastic



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

OM-CP-THERMOVAULT data logger, \$999, shown smaller than actual size

Maximum Exposure Temperature vs Duration	
Ambient Temp °C (°F)	Max Duration in Minutes**
100 (212)	52
150 (302)	30
200 (392)	22
250 (482)	17
260 (500)	16
300 (572)	15
350 (662)	12
400 (752)	10

* Accuracy does not include errors due to thermocouple.

** Assuming logger box is initially at 25°C.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
OM-CP-THERMOVAULT	\$999	Oven temperature data logger
OM-CP-THERMOVAULT-CERT	1059	Oven temperature data logger with 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, battery and RS-232 cable are included with the OM-CP-IFC110 Windows software (required to operate the data logger) is sold separately.

Ordering Example: OM-CP-THERMOVAULT-CERT, oven temperature data logger with NIST calibration certificate, OM-CP-IFC110, Windows software and RS-232 cable, \$1059 + 99 = \$1158.

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