

## Oven Temperature Data Logger Part of the NOMAD® Family

### OM-CP-THERMOVAULT



- ✓ 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 500,000 temperature measurements.

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: ±2.0°C

#### Resolution:

J, K, T, E, N: 0.1°C

R, S, B: 0.5°C

#### Memory: 500,000 readings;

software configurable memory wrap  
250,000 readings in multiple start/stop mode

### 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:** 1 second to 24 hours selectable in software

**Start Time:** Start time and date are programmable through software

**Power:** 3.6 V lithium battery included

**Battery Life:** 10 years typical at 15 minute reading rate

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

**Computer Interface:** USB (interface cable required); 115, 200 baud

**Software:** XP SP3/Vista/7 and 8 (32-bit and 64-bit)

**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)

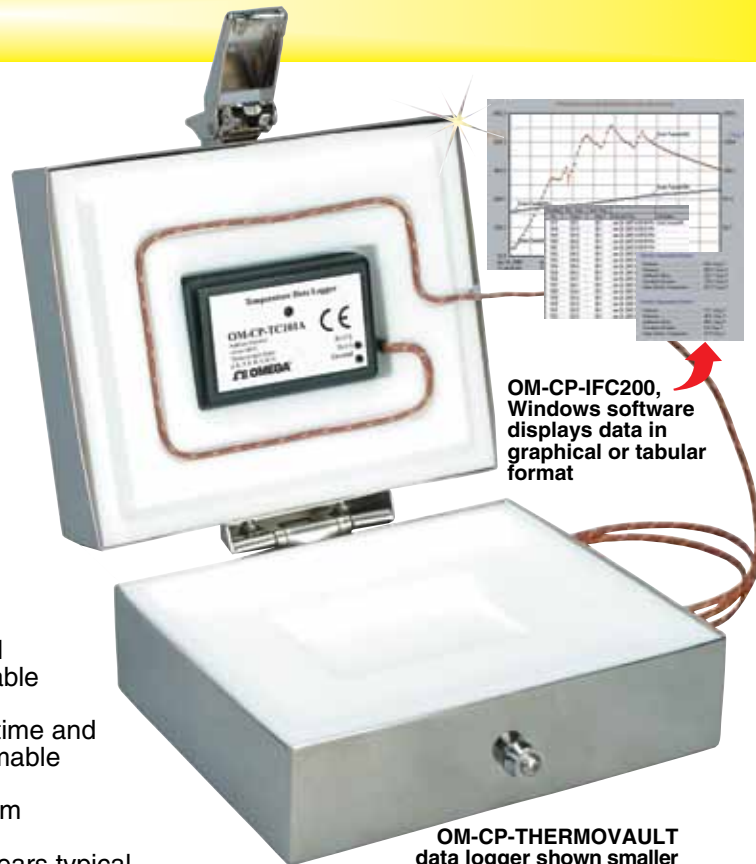
0 to 95% RH non-condensing

**Dimensions:** 64 H x 129 L x 113 mm D (2.5 x 5.1 x 4.5")

**Weight:** 1.59 kg (3.5 lbs)

**Enclosure (Thermal Box):** 304 stainless steel with PTFE insulation

**Enclosure (Logger):** ABS Plastic



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

OM-CP-THERMOVAULT data logger shown smaller than actual size

Maximum Exposure Temperature vs Duration	
Ambient Temp °C (°F)	Max Duration in Minutes**
100 (212)	136
125 (257)	100
150 (302)	80
175 (347)	66
200 (392)	56
225 (437)	49
250 (500)	44
275 (527)	39
300 (572)	36
325 (617)	32
350 (662)	30

\* Accuracy does not include errors due to thermocouple.

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

To Order	
Model No.	Description
OM-CP-THERMOVAULT	Oven temperature data logger
OM-CP-THERMOVAULT-CERT	Oven temperature data logger with NIST calibration certificate
OM-CP-IFC200	Windows software and 1.8 m (6') USB interface cable
OM-CP-SVP-SYSTEM	FDA 21 CFR part 11 compliant IQ/OQ/PQ secure software validation workbook and software package (unlimited users, license per computer)
OM-CP-BAT105	Replacement 3.6V lithium battery

Comes complete with 3.6V lithium battery.

Operator's manual and USB interface cable are included with the OM-CP-IFC200 Windows software (required to operate the data logger sold separately).

**Ordering Example:** OM-CP-THERMOVAULT-CERT, oven temperature data logger with NIST calibration certificate, OM-CP-IFC200, Windows software and USB interface cable.