Rugged Temperature Data Logger with 0.27 m (10.8") Flexible Probe
Part of the NOMAD® Family
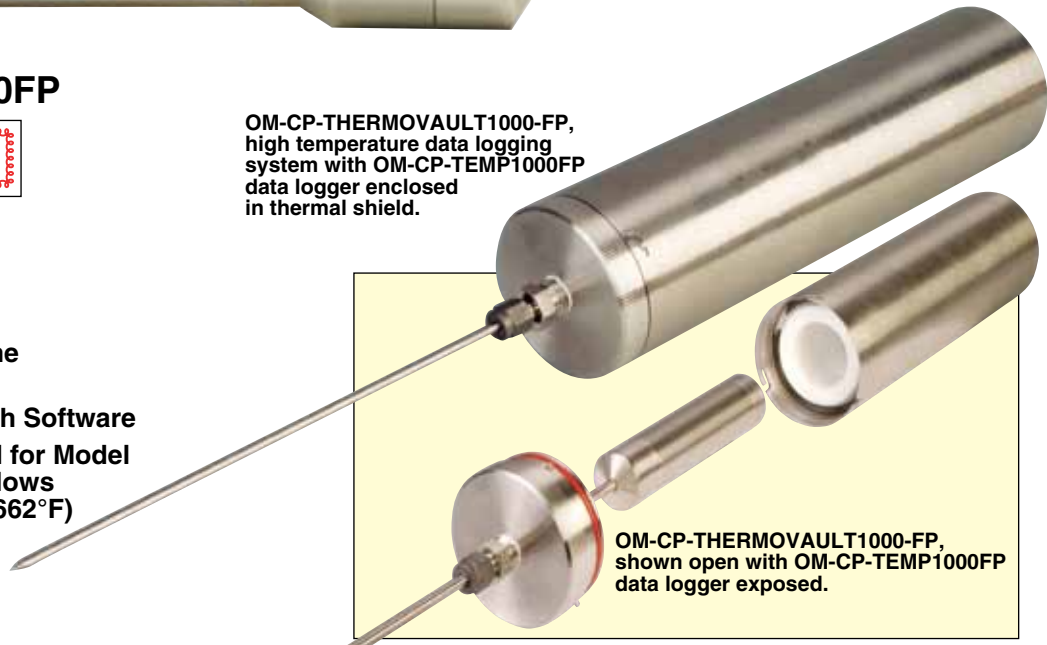

**OM-CP-TEMP1000FP
shown smaller than actual size.**

OM-CP-TEMP1000FP

5 YEAR WARRANTY   CE   NIST
Optional

**OM-CP-THERMOVAULT1000-FP,
high temperature data logging
system with OM-CP-TEMP1000FP
data logger enclosed
in thermal shield.**

✔ **Rugged Stainless Steel Construction**
✔ **Programmable Start Time**
✔ **Real-Time Operation**
✔ **User Calibration Through Software**
✔ **Optional Thermal Shield for Model OM-CP-TEMP1000FP Allows Operation up to 350°C (662°F)**

**OM-CP-THERMOVAULT1000-FP,
shown open with OM-CP-TEMP1000FP
data logger exposed.**

The OM-CP-TEMP1000FP is a rugged, waterproof, battery powered, stand-alone high temperature recorder with a 0.27 m (10.8") flexible probe.

This is an all-in-one compact, portable, easy to use device that will measure and record up to 32,767 measurements.

The OM-CP-TEMP1000FP is ideal for use in harsh environments. Its real time clock ensures that all data is date and time stamped.

The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. Data retrieval is simple. Plug it into an available COM port and our 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 be exported to a text or Microsoft file.

Specifications

Temperature Sensor:
100 Ω Platinum RTD
Temperature Range (Body):
-40 to 150°C (-40 to 302°F)
Temperature Range: (Probe):
-50 to 400°C (-58 to 752°F)
Temperature Resolution: 0.05°C
Calibrated Accuracy: 0.5°C
Start Modes: Software programmable immediate start or delay start, up to 6 months in advance
Real Time Recording: Device may be used with PC to monitor and record data in real time
Temperature Calibration: digital calibration through software
Recording Interval: 2 seconds to 12 hours selectable in software
Calibration Date: Automatically recorded within device to alert user when calibration is required
Power: 3.6V lithium battery included (not field installable)

Battery Life: 1 year typical (1 minute reading rate at 25°C)
Data Format: Date and time stamped, °C, °F, K, °R
Time Accuracy: ±1 minute per month at 20°C when RS232 port is not in use
Computer Interface: USB (interface cable required), 2400 baud
Software: XP SP3/Vista/7 and 8 (32-bit and 64-bit)
Operating Environment:
-40 to 150°C (-40 to 302°F), 0 to 100% RH non-condensing
Dimensions:
   Probe: 3 dia x 275 mm L (0.125 x 10.8")
   Logger:
   Overall Length: 142 mm (5.6")
   Diameter:
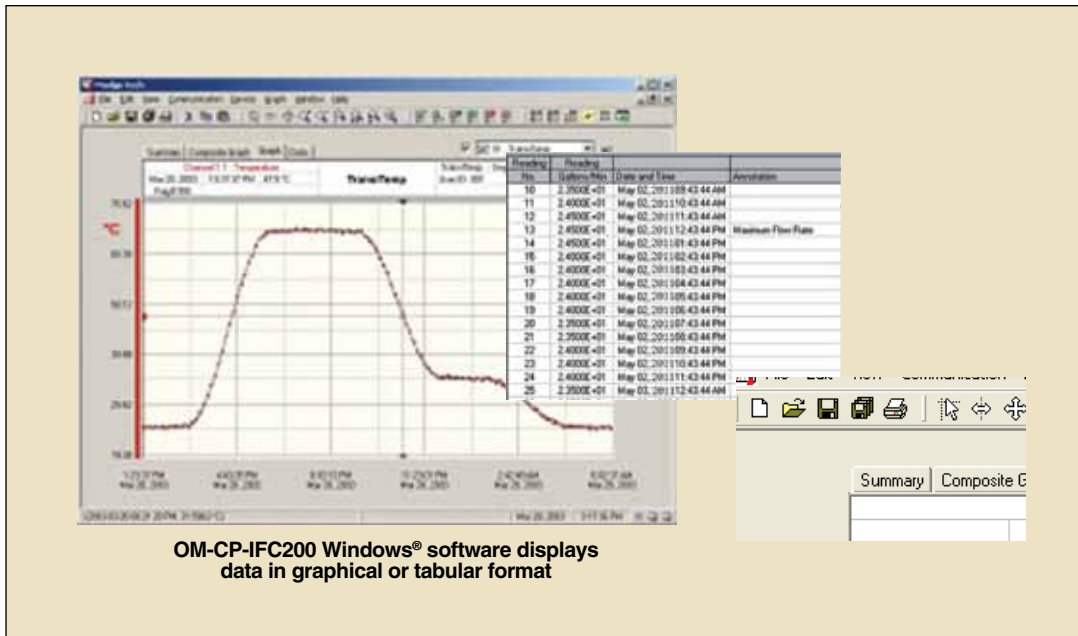   25 mm (1.0") for 100 mm L (3.95")
   32 mm (1.25") for 42 mm L (1.65")
Material:
   303 stainless steel (logger)
   304 stainless steel (probe)
Weight: 320 g (11.3 oz)

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

(Thermal Shield)
Operating Envionment:
-200 to 350°C (-328 to 662°F);
230°C (446°F) with O-ring,
0 to 100% RH
IP Rating: IP68
Insulation Type:
Dewar flask and PTFE
Access Port Thread:
¼ NPT female
Enclosure Materal: 304 SS
Dimensions:
236 L x 66 mm dia
(9.3 x 2.6")
Weight: 1.45 kg (3.2 lb)

OM-CP-THERMOVAULT1000-FP
(Thermal Shield with OM-CP-TEMP1000FP Data Logger)

Ambient Temperature °C	Time in Air to Max Internal Temp (min)	Time in Liquid to Max Internal Temperature (min)
100	—	—
150	—	—
200	540	—
250	390	130
300*	300	120
350*	270	—

* Contact Omega for these extended ranges

To Order

Model No.	Description
OM-CP-TEMP1000FP	Temperature data logger with integral probe
OM-CP-TEMP1000FP-CERT	Temperature data logger with integral probe with NIST calibration certificate
OM-CP-THERMOVAULT1000-FP	High temperature data logging system with OM-CP-TEMP1000FP data logger enclosed in thermal shield
OM-CP-THERMOVAULT1000-FP-CERT	High temperature data logging system with OM-CP-TEMP1000FP data logger enclosed in thermal shield and 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)

Comes complete with 3.6V lithium battery. Operator's manual and USB interface cable are included with the **OM-CP-IFC200** Windows software (software is required to operate the data logger and is sold separately). The entire data logger/probe assembly is not submersible.
Only the probe portion can be immersed (do not immerse the probe past the joint area where it connects into the body of the data logger as this joint area can be penetrated by liquid).
Ordering Example: OM-CP-TEMP1000FP-CERT Temperature data logger with 0.27 m (10.8") flexible probe with NIST calibration certificate and **OM-CP-IFC200** Windows software and USB interface cable.