

Ultra Low Temperature Data Logger



OM-CP-CRYO-TEMP



- ✔ Ultra Low Operating Temperature: -86°C (-122°F)
- ✔ May be Placed in Direct Contact with Dry Ice
- ✔ No External Probes or Wiring
- ✔ High Accuracy
- ✔ Programmable Alarm and Warning Ranges With Alarm Delay
- ✔ LED Status Indicators for Instant Alarm Notification
- ✔ Magnetic Start
- ✔ Optional Password Protection
- ✔ Splash Resistant (IP65)

The OM-CP-CRYO-TEMP ultra low temperature data logger records temperatures as low as -86°C (-122°F). The OM-CP-CRYO-TEMP can be used in a broad line of applications such as monitoring blood plasma, vaccines, pharmaceutical, frozen foods and shipping containers. This stand-alone device does not require any additional probes. The enclosure is designed with a handle for easy attachment and is IP64 splash resistant.

It utilizes a USB docking station (sold separately), to communicate with a personal computer or laptop. The OM-CP-CRYO-TEMP provides date and time stamped temperature readings. Our easy-to-use Windows® software does the rest.

The user can view the data in graphical or tabular form. High and low alarm limits and high and low warning limits can be programmed through the software.



OM-CP-CRYO-TEMP, shown actual size.

OM-CP-IFC300 docking station, 2 m (6') USB cable and Windows® software, sold separately and required to operate data logger. Shown actual size.

The user can set the alarm limits in the range required for the goods to be maintained. The warning limits can be set to alert the user when the temperature is nearing a high or low alarm limit, so that proper action can be taken to ensure the integrity of the goods.

The OM-CP-CRYO-TEMP is equipped with three LED's. The green LED will blink every 15 seconds while the recorder is logging data. The yellow LED will blink every 3 seconds when the temperature has breached the warning limits. The red LED will blink every 3 seconds when the temperature alarm limits have been exceeded.

The OM-CP-CRYO-TEMP is the ideal temperature monitoring solution for any application involving ultra low temperature recording.

Specifications

Temperature Sensor:

NTC Thermistor

Temperature Measurement

Range: -86 to 35°C (-122 to 95°F) recommended, may be used up to 55°C (131°F)

Temperature Resolution: 0.1°C

Calibrated Accuracy: $\pm 1.0^{\circ}\text{C}$

Readings: 32,767; Software configurable memory wrap

Recording Interval:

5 seconds to 30 minutes, selectable in software

Start Modes: Immediate start, delay start or manual start with magnetic switch

Programmable Start Delay: Up to 30 days from PC launch or manual start



OM-CP-IFC300, Windows software displays data in graphical or tabular format.



OM-CP-CRYO-TEMP, shown actual size.

Temperature Alarm: Software programmable high and low alarm limits, high and low warning limits; each setpoint may be individually enabled or disabled

Alarm Delay: Software programmable time delay for warning/alarm limits; logger will not indicate out of range status until the temperature has been out of range for a set period of time

Status Indicators:

- Green:** Blinks to indicate safe conditions during logging
- Yellow:** Blinks to indicate warn limits have been exceeded
- Red:** Blinks to indicate alarm criteria (limits/delay) have been exceeded

Password Protection: An optional password may be programmed into the device to restrict access to configuration options; data may be read out without the password

Calibration: Digital calibration is available to the user through software
Calibration Date: Automatically recorded within device

Power: 3.6V lithium battery (included), factory replaceable only
Battery Life:

- 2 Years:** Typical @ 25°C (77°F), 1 minimum reading intervals
- 1 Year:** Typical @ -80°C (-112°F), 1 minimum reading intervals

Time Accuracy: ±2 minutes/month maximum at 20 to 30°C (68 to 86°F); ±5 minutes/month maximum at -80°C (-112°F)

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

Computer Interface: USB docking station to PC; 38,400 baud

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

Operating Environment: -86 to 35°C (-122 to 95°F) may be used up to 55°C (131°F); 0 to 100% RH

Dimensions: 83 H x 54 W x 11 mm D (3.3 x 2.1 x 0.4")

Ingress Protection/IP Rating: IP65 (splash resistant, not submersible)

Enclosure: ABS plastic, white, polycarbonate labeling
Weight: 40 g (1.4 oz)

To Order	
Model No.	Description
OM-CP-CRYO-TEMP	Ultra-low temperature data logger
OM-CP-CRYO-TEMP-CERT	Ultra-low temperature data logger with NIST calibration certificate
OM-CP-IFC300	Windows software, docking station and 2 m (6') USB interface cable
OM-CP-WM-300	Wall mount station for data logger

Comes complete with 3.6V lithium battery.

Operator's manual is included with the **OM-CP-IFC300** Windows software, docking station and USB cable, (required to operate the data logger and sold separately).

Ordering Example: **OM-CP-CRYO-TEMP**, ultra-low temperature data logger and **OM-CP-IFC300**, Windows software with docking station and USB cable.