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OM-CP-Cryo-Temp Ultra Low Temperature Data Logger

Product Notes

Manual Start

When the Manual Start method is selected, the data logger will be armed, but not recording. To start the device, hold the magnetic wand (found on the OM-CP-IFC300) over the start mark, the green LED will blink 5 times, followed by the warn and alert LED's. The green LED will continue to blink to indicate the device is logging.

Marking Feature

A date and time stamp may be placed in the recorded data with the magnetic switch. The marking feature may be configured to clear the alarm / warn indicators.

Submergibility

The OM-CP-Cryo-Temp is splash resistant, rated IP65.

LEDs

Green: Blinks to indicate safe conditions during acquisition.

Yellow: Blinks to indicate warning limits have been exceeded.

Red: Blinks to indicate alarm criteria (limits/delay) have been exceeded.

Alarm Settings

To change the settings for the temperature alarm;

- Select Alarm Settings from the Device Menu in the Omega Software. A window will appear allowing the customer to set the high and low temperature alarms and warning alarms.
- Press Change to edit the values.
- Check Enable Alarm Settings to enable the feature and check each high and low, warn and alarm box to activate it. The values can be entered in the field manually or by using the scroll bars.
- Click Save to save the changes. To clear an active alarm or warn, press the Clear Alarm or Clear Warn button.
- To set an alarm delay, enter the duration of time into the Alarm Delay box in which the readings can be outside of the alarm parameters.

Password Protection

To password protect the device so that others cannot start, stop or reset the device;

- Click Identify Device and Read Status, then select the Device Detail Tab.
- Choose Set Password.
- Enter and confirm the password and click OK

Device Maintenance

Battery Replacement

The OM-CP-Cryo-Temp must be returned to the factory for battery replacement.

Installation Guide

Installing the Interface cable

- OM-CP-IFC300: Refer to the "Quick Start Guide" included in the package.

Installing the software

Insert the Software CD in the CD Drive. If the autorun does not appear, locate the drive on the computer and double click Autorun.exe. Follow the instructions in the Wizard.

Connecting the data logger

- Once the software is installed and running, plug the interface cable into the data logger.
- Click the Communication Menu, then Auto Configure Port.
- After a moment, a box will appear stating that a device has been found.
- Click OK. The Device Status box will appear. Click OK.
- At this point, communications have been configured for your logger. These settings can be found under the Communication Menu.

Note: For additional installation instructions refer to your "Data Logger & Software Operating Manual".

Device Operation

Starting the data logger

- Click Device Menu then Start Device.
- Choose the desired start method.
- Choose the start parameters by selecting a Reading Rate suitable for your application.
- Enter in any other desired parameters and click Start.
- A box will appear stating the data logger has been started. Click OK.
- Disconnect the data logger from the interface cable and place it in the environment to measure.

Note: The device will stop recording data when the end of memory is reached or the device is stopped. At this point the device cannot be restarted until it has been re-armed by the computer.

Downloading data from a data logger

- Connect the data logger to the interface cable.
- Click the Device Menu then Read Device Data. This will offload all recorded data onto the PC.



Part Number	OM-CP-Cryo-Temp
Temperature Sensor	Thermistor
Temperature Range	-86 to +35°C
Temperature Resolution	0.1°C
Calibrated Accuracy	±1.0°C
Memory	32,767
Sample Rate	5 seconds up to 30 minutes
LED Indicator	Red, Green & Yellow
Manual Start	Yes
Required Interface Package	OM-CP-IFC300
Baud Rate	38,400
Typical Battery Life	2 years @ +25°C, 1 year at -80°C
Operating Environment	-86 to +35°C, 0 to 100%RH
Submergible	Splash Resistant (IP65)
Material	ABS plastic
Dimensions	3.3" x 2.1" x 0.4" (83mm x 54mm x 11mm)
Approvals	CE

Battery Warning

WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 80°C (176°F).



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If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

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The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

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