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OM-CP-QuadTemp2000 4-Channel Thermocouple Based Temperature Data Logger with LCD

Product Notes

Please refer to the OM-CP-QuadTemp2000 Product Manual for full details on how to enable, disable and name thermocouple channels, configure the LCD and more.

Programming Thermocouple Type

To change the thermocouple type in the Omega software:

- Select Thermocouple Type from the Device Menu.
- Click on the Change button in the Thermocouple Type window.
- Select the correct thermocouple type from the drop down list.
- Click on the Save button to store the thermocouple type in the device.
- Click OK. *Please note that the same thermocouple type must be used on all of the channels.*

Set Password

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

LED Function

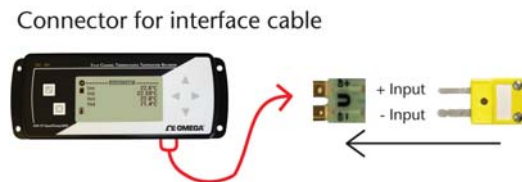
Green LED - Blinks to indicate that the device is armed and/or running. Blinks when confirming or scrolling through keypad options.

Red LED - Blinks to indicate low battery or low memory.

Blue LED on Thermocouple channels - Blinks at the reading rate (but no more than once every other second).

Wiring the Data Logger

The SMP connections allow the user to insert subminiature thermocouple plugs into the connectors on the device. The diagram below shows how to connect the individual thermocouples for each of the devices.



Device Maintenance

Battery Replacement

Materials:

3/32" HEX Driver (Allen Key) and a Replacement Battery (OM-CP-BAT103)

- Remove the back cover from the device by unscrewing the four screws.
- Remove the battery from its compartment and unsnap it from the connector.
- Snap the new battery into the terminals and verify it is secure.
- Replace the cover taking care not to pinch the wires. Screw the enclosure back together securely.

Note: Be sure not to over tighten the screws or strip the threads.

Installation Guide

Installing the Interface cable

- OM-CP-IFC200: Insert the Software CD in the CD-ROM Drive. If the autorun does not appear, locate the drive on the computer and double click on Autorun.exe. Click on Drivers and Third Party Tools, then Install USB Interface Drivers. Click Install to install the USB drivers. Plug the OM-CP-IFC200 cable into an available USB port on the computer.

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-RTDTemp2000
Temperature Sensor	100Ω Platinum RTD
Temperature Range	-200 to +850°C
Temperature Resolution	0.01°C
Calibrated Accuracy	±0.05°C (-200 to +260°C) ±0.3°C (+260 to +850°C)
Memory	174,762
Sample Rate	2 seconds up to 24 hours
Required Interface Package	OM-CP-IFC200
Typical Battery Life	1 year at 1 minute reading rate with display off, 30 days typical with continuous LCD display use
Baud Rate	115,200
Operating Environment	-20 to +60°C 0 to 95%RH (non-condensing)
Materials	Black anodized aluminum
Dimensions	4.8" x 3.3" x 1.25" (122mm x 84mm x 32mm)
Approvals	-

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 60°C (140°F).



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Servicing North America:

U.S.A.: Omega Engineering, Inc., One Omega Drive, P.O. Box 4047
ISO 9001 Certified Stamford, CT 06907-0047
 Toll-Free: 1-800-826-6342 Tel: (203) 359-1660
 FAX: (203) 359-7700 e-mail: info@omega.com

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 FAX: +420-59-6311114 e-mail: info@omegashop.cz

France: Managed by the United Kingdom Office
 Toll-Free: 0800 466 342 TEL: +33 (0) 161 37 29 00
 FAX: +33 (0) 130 57 54 27 e-mail: sales@omega.fr

Germany/Austria: Daimlerstrasse 26, D-75392 Deckenpfronn, Germany
 Toll-Free: 0800 6397678 TEL: +49 (0) 7056 9398-0
 FAX: +49 (0) 7056 9398-29 e-mail: info@omega.de

United Kingdom: OMEGA Engineering Ltd.
 One Omega Drive, River Bend Technology Centre, Northbank
ISO 9001 Irlam, Manchester M44 5BD United Kingdom
Certified Toll-Free: 0800-488-488 TEL: +44 (0) 161 777-6611
 FAX: +44 (0) 161 777-6622 e-mail: sales@omega.co.uk

For immediate technical or application assistance:

U.S.A. and Canada: Sales Service: 1-800-826-6342/1-800-TC-OMEGA®
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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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