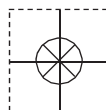


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# **OMEGA®** User's Guide



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## **OM-93** **OMEGA® Bluetooth® Wireless** **Temperature / Humidity Data** **Logger**

MQS5543/0216



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# OM-93

## OMEGA® Bluetooth® Temperature / Humidity Data Logger

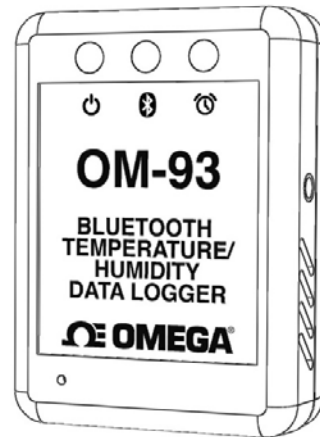
### Quick Reference Guide

(Model OM-93)

#### **Description**

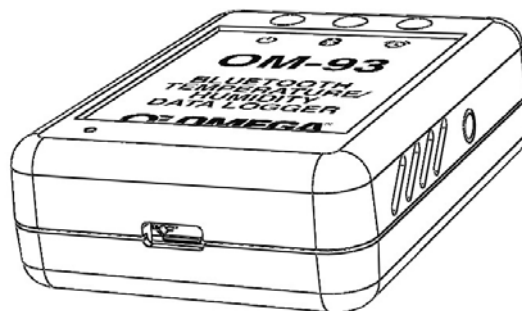
The OM-93 logger is a portable wireless data logger from Omega. It can be connected either via a USB cable to a Windows® PC application or using Bluetooth® wireless technology to your iPhone®, iPad® or iPad mini® mobile devices. This makes it possible to make use of the OM-93 logger in situations where it is simply not convenient to make a cable connection to a PC. Both Windows® PC and iPhone® mobile device applications offer a simple means of configuring the logger, data extraction and data viewing features.

This Quick Reference Guide gets you started with the logger with the most basic functions to have you up and running with your logger in a matter of minutes.



#### **OM-93 Battery Charging**

Your Omega OM-93 logger includes a Lithium Polymer (LiPo) rechargeable battery. The Battery automatically charges by connection to any USB source such as a PC or Mac. Charging of the battery may be necessary on first receiving your OM-93 logger. The logger is charged when the rightmost "Alarm LED" goes from being illuminated red continuously to green continuously. This can take up to 2 hours for a completely discharged battery.



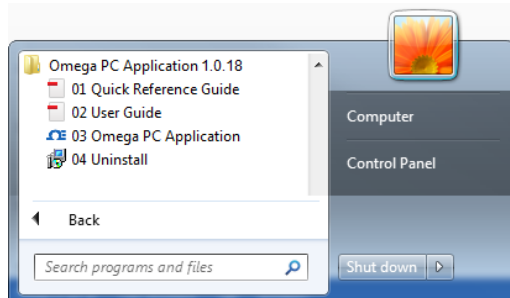
It is also possible to charge using a USB mains charger. Use of a USB mains charger is permitted when OM-93 is logging meaning that the logger always has battery life and will not need recharging.

## USB Operation

The OM-93 logger can be configured, data downloaded and further analysed by connection to a PC using a USB cable and the OM-90 Series Data Logger Software. The logger can similarly be configured by the iPhone application and this is described later in this Quick Reference Guide.

Installation of the OM-90 Series Data Logger Software is very simple. The OM-93 needs no special drivers since it is a USB HID device and such devices can make use of the standard drivers that come with Windows. Simply run the application from the included CD or obtain from the Omega website:

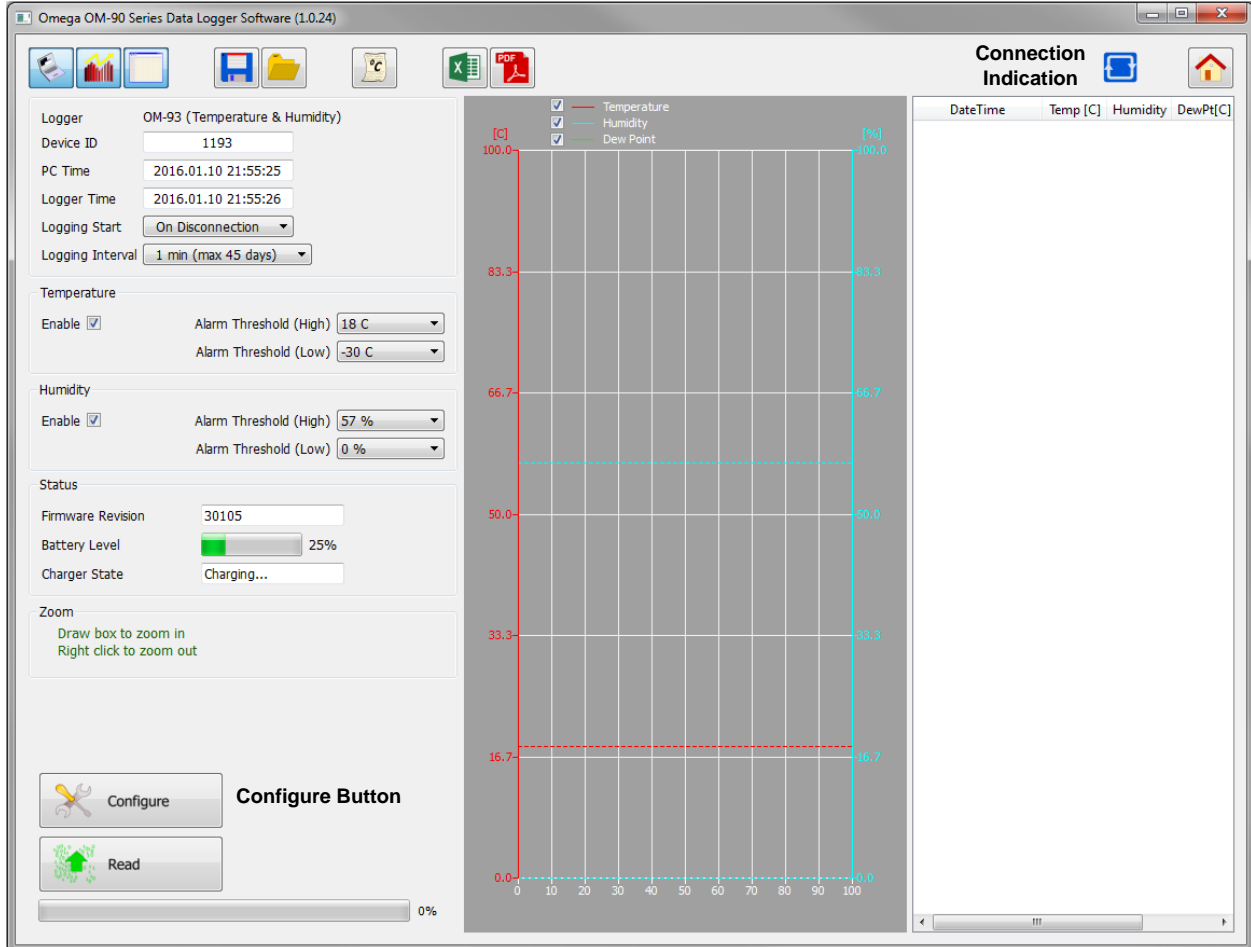
In the Windows Start Menu launch the OM-90 Series Data Logger Software.



The front page of the GUI is an overview of the logger. Press the Configuration button to get to the next page.



Connect the logger and you will see the connected indication changes to blue.



Next fill out the configuration settings. For example:-

- °C or °F
- logging start to "On Disconnection"
- logging interval to say 10 seconds
- temperature alarm enabled and thresholds set
- humidity alarms enabled and thresholds set

Press the "Configure Button" so that the settings are updated in your logger. Please wait until the software has finished updating the logger.

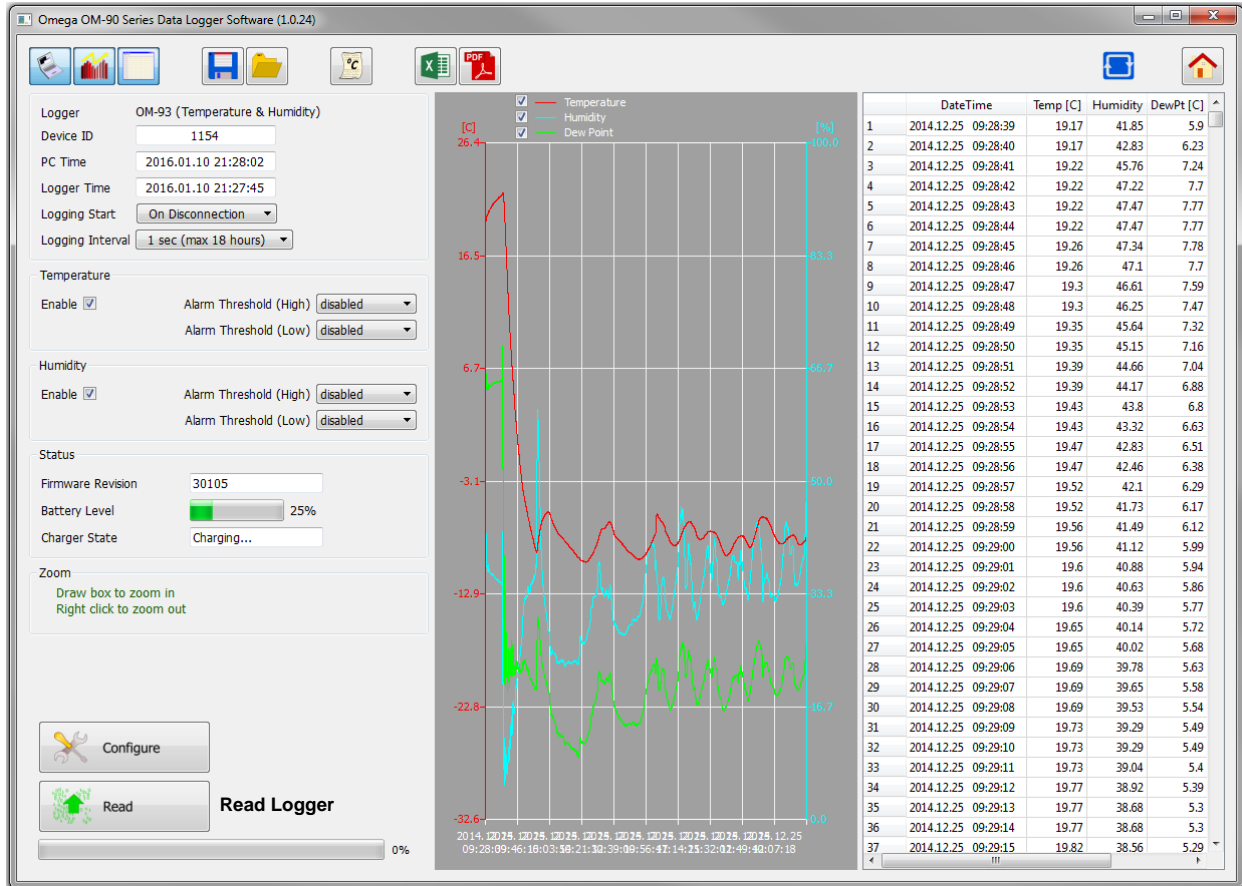
Disconnect the logger. You should see that logging will start automatically indicated by a 1 second green light. The green light will then flash every 6 seconds to indicate that the unit is logging. The red light will flash also in the case that the temperature or humidity goes outside of the allowed limits and triggers the alarms.

If the logger becomes full then all lights will stop flashing.

When you have collected data with your OM-93 logger one can reconnect to the PC Application to retrieve the data. Connect your OM-93 logger using the USB cable. The logger red light will illuminate for 1 second indicating logging is stopping.

Start the PC application and navigate to the Configuration page.

Press "Read Logger Configuration/Data" to retrieve the configuration and data from the connected logger. Wait until all information is retrieved from the logger.



The graph and spread sheet will be filled with the logged data.

Zooming in and out of the graphs can be achieved by the following controls:

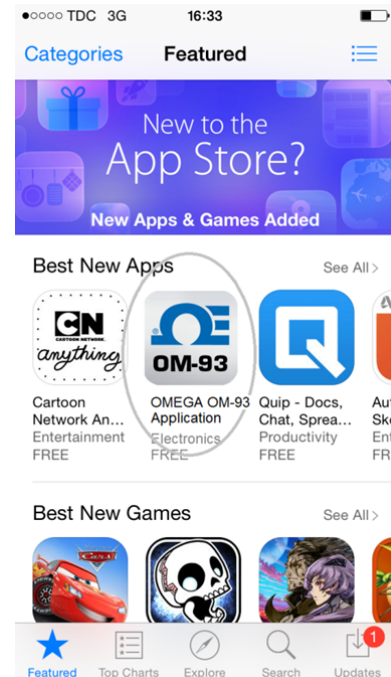
- to Zoom In - drag the left mouse button
- to Zoom Out - click the right mouse button
- when zoomed in you can move around using the key-board arrows or the mouse scroll wheel

To write data and configuration to file, press the save icon.

## iPhone Operation

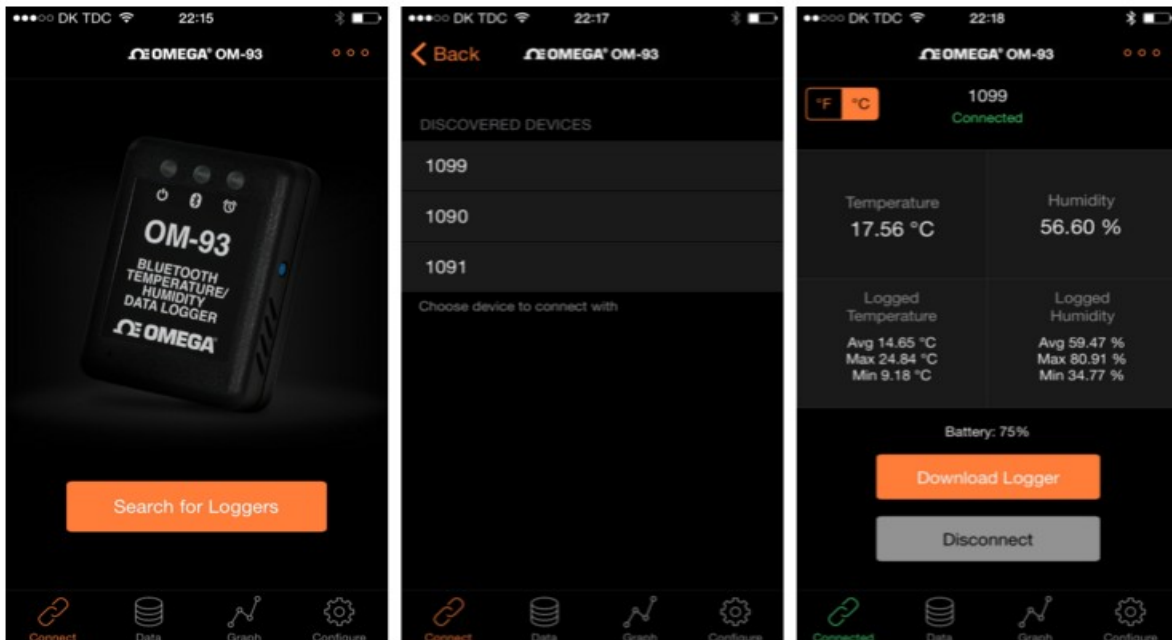
The OM-93 logger can be configured, data can be downloaded and further analyzed through wireless connection from an iPhone, iPad or iPad-mini® using the OM-93 iPhone application.

The OM-93 iPhone Application is a free iPhone app found on Apple's App Store. Search for Omega Engineering OM-93 App. Download and install the application.



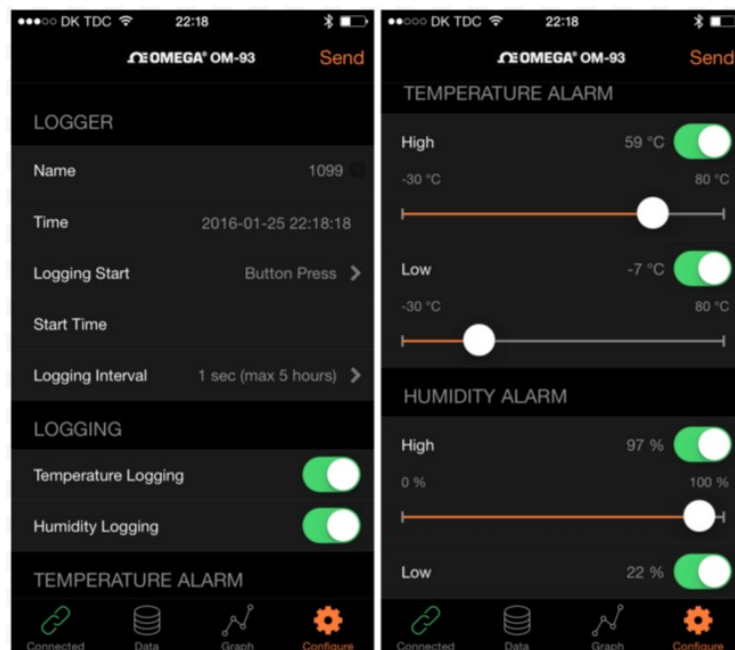
The OM-93 iPhone application requires that the Bluetooth® is enabled for the mobile device. If the application is started and this is not the case then it will first ask to be enabled. Once the OM-93 application is started then there is an option of scanning for all OM-93 loggers. After searching the application will provide a list of all OM-93 devices that can be connected from your mobile device. Select one of these.

Upon successful connection the logger's Bluetooth® Connected LED turns blue. On the application the connected icon turns green. Also, the application starts showing in real time the temperature and humidity from the logger.



To configure a logger to go to the configure screen. Fill out all desired settings including:

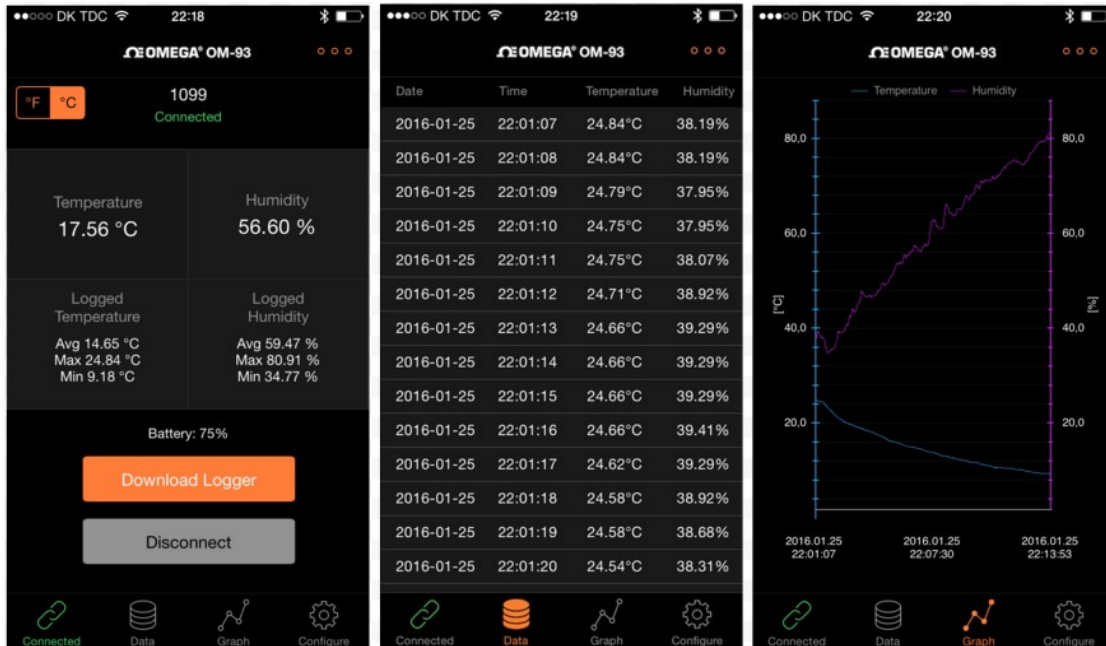
- the name of the logger
- the logging start mode
  - on disconnection
  - by button press
  - at specified start time
- the logging interval
- enabling/disabling of temperature logging
- enabling/disabling of humidity logging
- temperature units (Fahrenheit or Celsius)
- temperature alarms levels (upper and lower)
- humidity alarms levels (upper and lower)



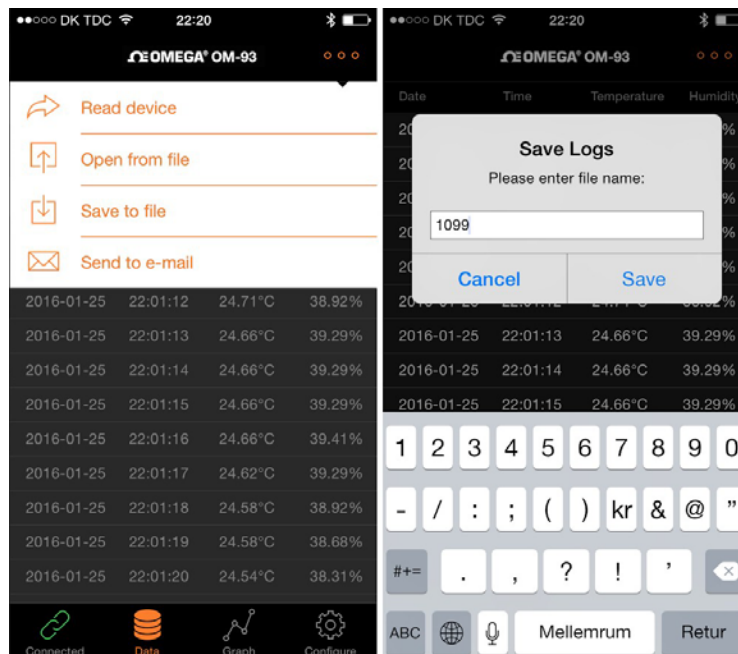
Once all configuration is as required then press Send to download all settings to the logger.

After connecting to a logger that has collected data for download, select Download Logger from the connected screen. The application then moves to the Data screen and all data appears as a list of sample points collected. Once data is read into the application it is possible to view the data graphically from the Graph screen.







Data can be saved to the iPhone from the Data screen. Data can be read back into the application at some later point in time. Data can also be forwarded as an email in the form of a Comma Separated Data file (CSV).



To disconnect from the logger either select Disconnect on the Connected screen or just close the application. The Blue LED will turn off indicating the logger is disconnected. Having the application sent to the background is also sufficient to close the connection to the logger.

### ***More Advanced Topics***

This document has shown the most basic way to configure the OM-93 logger in order for you to get started very quickly.

There are other logger start modes such as button press, start at a defined time and real time logging. It is also possible to open Microsoft® Excel® directly from the GUI  and write out PDF reports . For a more exhaustive description of all features of the logger then please consult the full OM-93 User Guide included on the CD.

### ***Product Support***

For technical support questions please contact Omega at:

1-800-USA-WHEN (1-800-872-9436)

or via email to [das@omega.com](mailto:das@omega.com)

## WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

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:

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3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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