It is the policy of OMEGA to comply with all worldwide safety and EMC/EMI regulations that apply. OMEGA is constantly pursuing certification of its products to the European New Approach Directives. OMEGA will add the CE mark to every appropriate device upon certification.

The information contained in this document is believed to be correct but OMEGA Engineering, Inc. accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

WARNING: These products are not designed for use in, and should not be used for, patient connected applications.

This device is marked with the international hazard symbol. It is important to read the Setup Guide before installing or commissioning this device as it contains important information relating to safety and EMC.
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SAFETY CONSIDERATIONS

This device is marked with the international Caution symbol. It is important to read this manual before installing or commissioning this device as it contains important information relating to Safety and EMC (Electromagnetic Compatibility).

Unpacking & Inspection

Unpack the instrument and inspect for obvious shipping damage. Do not attempt to operate the unit if damage is found.

This instrument is a panel mount device protected in accordance with Class I of EN 61010 (115/230 AC power connections). Installation of this instrument should be done by Qualified personnel. In order to ensure safe operation, the following instructions should be followed.

This instrument has no power-on switch. An external switch or circuit-breaker shall be included in the building installation as a disconnecting device. It shall be marked to indicate this function, and it shall be in close proximity to the equipment within easy reach of the operator. The switch or circuit-breaker shall not interrupt the Protective Conductor (Earth wire), and it shall meet the relevant requirements of IEC 947–1 and IEC 947-3 (International Electrotechnical Commission). The switch shall not be incorporated in the mains supply cord.

Furthermore, to provide protection against excessive energy being drawn from the mains supply in case of a fault in the equipment, an overcurrent protection device shall be installed.

- The Protective Conductor must be connected for safety reasons. Check that the power cable has the proper Earth wire, and it is properly connected. It is not safe to operate this unit without the Protective Conductor Terminal connected.

- Do not exceed voltage rating on the label located on the top of the instrument housing.
- Always disconnect power before changing signal and power connections.
- Do not use this instrument on a work bench without its case for safety reasons.
- Do not operate this instrument in flammable or explosive atmospheres.
- Do not expose this instrument to rain or moisture.

EMC Considerations

- Whenever EMC is an issue, always use shielded cables.
- Never run signal and power wires in the same conduit.
- Use signal wire connections with twisted-pair cables.
- Install Ferrite Bead(s) on signal wires close to the instrument if EMC problems persist.
1.0 MAIN ASSEMBLY SPECIFICATIONS

1.1 GENERAL

OMEGAROMETER DP2000K main assemblies are identified by an initial designator (DP2) plus a power/display option numeral, zero thru nine (0-9).

The following table identifies the main assembly types:

<table>
<thead>
<tr>
<th>Display Type</th>
<th>120 Vac</th>
<th>240 Vac</th>
<th>9-32 Vdc</th>
<th>5 Vac</th>
<th>24 Vac</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED</td>
<td>DP20</td>
<td>DP22</td>
<td>DP24</td>
<td>DP26</td>
<td>DP28</td>
</tr>
<tr>
<td>LCD</td>
<td>DP21</td>
<td>DP23</td>
<td>DP25</td>
<td>DP27</td>
<td>DP29</td>
</tr>
</tbody>
</table>

The OMEGAROMETER Process Monitor consists of a main assembly, signal conditioner and interface options (if ordered) all housed in a 1/8 DIN case.

The main assembly consists of a main board and a display board which is permanently attached to it at a 90 degree angle.

The main board provides mounting for the power supply, circuit components, and connectors for plugging in the signal conditioner, optional analog card, and optional controller/communications interface card (requires removal of a bypass push-on jumper).

The display board includes the analog-to-digital converter, the LED or LCD display and the push-on jumper for programming the decimal points. Decimal point programming may also be done from the main board connector (J1).
1.2 POWER
AC Models: 24/120/240V +10-15% 47-63 Hz
Common Mode Voltage: 1500 Vp test (354 Vp per IEC spacing)
DC Models: 5V ±5% (5V return common to signal LO)
9-32V (300V isolation from 9-32V return to signal LO)
Power Consumption: 5 watts maximum

1.3 DISPLAY
LED: 14.2mm (0.56 in), 7-segment light emitting diode
Lens Color: Red
LCD: 12.7mm (0.50 in), 7-segment liquid crystal
Lens color: Clear
Range: 0 to ±1999
Overload Indication: Three least significant digits blanked, "1" or "-1" displayed

1.4 CONVERSION
Technique: Auto-zero, dual slope, average value
Signal Integration Period: 100ms, nominal
Reading Rate: 2.5/second, nominal

1.5 ENVIRONMENTAL
Operating Temperature (Ambient): 0-60°C
Storage Temperature: -40 to 85°C
Humidity: To 95% RH, non-condensing, 0-40°C

1.6 MECHANICAL
Case Material: UL-rated 94V-0, polycarbonate
Weight: 0.57 kg (with interface board)
2.0 MECHANICAL ASSEMBLY & INSTALLATION

2.1 PANEL MOUNTING PROCEDURE (SEE FIGURE 1)

1. Remove the main board edge connector (J1), if installed.
2. Remove the interface board connector (J2), if installed.
3. Loosen two clamp screws on the rear of the case enough to rotate the two slide clamps.
4. Slide the two slide retainers toward the rear of the case and remove them.
5. From the front of the panel, insert the meter into the panel cutout.
6. Slide the slide retainers back onto the case and push up tightly against the rear of the panel.
7. Rotate the slide clamps back into their original position and tighten enough to hold the case in place. Overtightening can break the clamps.
8. Install any connectors removed.

2.2 LABELS (SEE FIGURE 2 FOR PLACEMENT)

![Diagram of label placement]

NOTE: READ LABELS FROM THE REAR

FIGURE 2. LABEL PLACEMENT
3.0 POWER & SIGNAL INPUT CONNECTIONS

WARNING: Incorrect power input can damage your OMEGAROMETER PROCESS MONITOR.

3.1 POWER CONNECTIONS

<table>
<thead>
<tr>
<th>Terminal Connection</th>
<th>AC Versions</th>
<th>Wire Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AC power HI</td>
<td>Black</td>
</tr>
<tr>
<td>2</td>
<td>AC power LO (neutral)</td>
<td>White</td>
</tr>
<tr>
<td>3</td>
<td>AC power GND</td>
<td>Green</td>
</tr>
</tbody>
</table>

REAR TERMINAL VIEW

<table>
<thead>
<tr>
<th>Terminal Connection</th>
<th>DC Versions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No connection</td>
</tr>
<tr>
<td>2</td>
<td>DC power +</td>
</tr>
<tr>
<td>3</td>
<td>DC power - (return)</td>
</tr>
</tbody>
</table>

3.2 SIGNAL INPUT CONNECTIONS

<table>
<thead>
<tr>
<th>Terminal Connection</th>
<th>6 Terminal Versions</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Analog GND</td>
</tr>
<tr>
<td>5</td>
<td>- Signal LO</td>
</tr>
<tr>
<td>6</td>
<td>+ Signal HI</td>
</tr>
</tbody>
</table>

REAR TERMINAL VIEW
4.0 CONFIGURATION PROCEDURE

This procedure is used to set the decimal point of the display and interface board signal bypass selections for the configuration of the OMEGAROMETER DP2000X display and power options (DP20 through DP29).

The main assembly can be configured using the push-on jumpers provided or already positioned on the pin forests. Pin forest designations are shown at the top of every page of the configuration charts.
5.0 CONFIGURATION CHARTS

5.1 DECIMAL POINT SELECTION

Step 1: Remove all push-on jumpers not used in the desired configuration(s).

Step 2: Select the desired configuration from the chart below, then install the push-on jumpers indicated.

<table>
<thead>
<tr>
<th>Decimal Point Selection</th>
<th>S1</th>
<th>Alternate Decimal Point Selection Using Main Assembly Board (J1) Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decimal Point (1.999)</td>
<td>A</td>
<td>Connect J1-K/9 to J1-6</td>
</tr>
<tr>
<td>Decimal Point (19.99)</td>
<td>B</td>
<td>Connect J1-J/8 to J1-6</td>
</tr>
<tr>
<td>Decimal Point (199.9)</td>
<td>C</td>
<td>Connect J1-H/7 to J1-6</td>
</tr>
</tbody>
</table>
Step 1: Check your OMEGAROMETER part number for a zero (0) in the following position: DP2XX0X. If there is a zero (0) in that position, interface board signal bypass is required.

Step 2: Remove all push-on jumpers not used in the desired configuration(s).

Step 3: Select the desired configuration from the chart below, then install the push-on jumpers indicated.

<table>
<thead>
<tr>
<th>Interface Board Signal Configuration</th>
<th>S2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interface Board Signal Bypass</td>
<td>A</td>
</tr>
</tbody>
</table>
6.0 TESTS & DIAGNOSTICS

6.1 TEST CONFIGURATION REQUIREMENTS

The OMEGAROMETER main assembly is designed to function with a signal conditioner board as a minimum configuration. There is no provision for testing a main assembly alone.

6.2 SIGNAL INPUT REQUIREMENTS

Signal input requirements for your configuration are identified in the signal conditioner section of this manual.
7.0 MAIN BOARD CONNECTOR PINOUTS (J1)
(Left to right, looking at rear of case)

<table>
<thead>
<tr>
<th>Connection</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A - 1</td>
<td>Spare</td>
</tr>
<tr>
<td>B</td>
<td>Oscillator</td>
</tr>
<tr>
<td>2</td>
<td>-8.2 Vdc</td>
</tr>
<tr>
<td>C - 3</td>
<td>Spare</td>
</tr>
<tr>
<td>D</td>
<td>+ Pol (sign)</td>
</tr>
<tr>
<td>4</td>
<td>Hold</td>
</tr>
<tr>
<td>E - 5</td>
<td>Spare</td>
</tr>
<tr>
<td>F</td>
<td>Buffer</td>
</tr>
<tr>
<td>6</td>
<td>Digital Ground</td>
</tr>
<tr>
<td>H - 7</td>
<td>199.9 (Decimal Point)</td>
</tr>
<tr>
<td>J - 8</td>
<td>19.99 (Decimal Point)</td>
</tr>
<tr>
<td>K - 9</td>
<td>1.999 (Decimal Point)</td>
</tr>
<tr>
<td>L - 10</td>
<td>TEST (LED version only)</td>
</tr>
<tr>
<td>M - 11</td>
<td>+5 Vdc</td>
</tr>
<tr>
<td>N - 12</td>
<td>Analog output</td>
</tr>
<tr>
<td>P - 13</td>
<td>Spare</td>
</tr>
<tr>
<td>R - 14</td>
<td>Spare</td>
</tr>
<tr>
<td>S - 15</td>
<td>Analog Ground</td>
</tr>
<tr>
<td>T - 16</td>
<td>Analog Option - Return</td>
</tr>
<tr>
<td>U</td>
<td>Analog Option - Out</td>
</tr>
<tr>
<td>17</td>
<td>+30 Vdc</td>
</tr>
<tr>
<td>V - 18</td>
<td>Spare</td>
</tr>
</tbody>
</table>

- Indicates common pin.
50 mA maximum power available from all internal sources.

REAR TERMINAL VIEW
8.0 DRAWINGS

8.1 DIMENSIONS

NOTE: Dimensions are in millimeters ±0.25 mm and inches are in ( ) ±0.01 in

SIDE VIEW

TOP VIEW

REAR VIEW
Terminal block cover and bezel not shown for clarity.
Clamp rings rotated and slide retainers removed as shown for installation.
9.0 SPECIFICATIONS: BSCK, (DP2000K), TYPE K THERMOCOUPLE

9.1 GENERAL

The BSCK (DP2000K) will measure the temperature using an ANSI type "K" thermocouple.

The digital display can be scaled by internal push-on jumpers connectors and rezeroed for °C or °F.

The BSCK (DP2000K) has a high-accuracy temperature range of 0°C to 1260°C or 32°F to 1999°F. The BSCK (DP2000K) displays temperatures beyond this range (except beyond 1999°), but the specified accuracy is not guaranteed for such readings.
9.2 TEMPERATURE SENSOR (CUSTOMER SUPPLIED)

Type
Material
  Type K
Calibration
Lead Resistance, Max.
  Type K

9.3 INPUT SIGNAL CONDITIONER

Configuration

Polarity
Zero

Overvoltage Protection
(Differential)
Sensor Break Detection
Sensor Break Detection Current
NMR at 50/60 Hz

Common Mode

  Analog ground to ac power ground
  CMR at dc to 60 Hz
  CMV at dc to 60 Hz

Linearization

Accuracy at 25°C
°F or °C Scale Selection
Reference Junction Tempco
  from 10°C to 40°C
Span Tempco from 10°C to 40°C
Warm-up to Rated Accuracy

Thermocouple
Chromel-Alumel
NBS (based on IPTS-68)
395 Ohm

Single-ended (+T/C lead connected to analog ground through 10 Ohm)
Bipolar
Adjustable ±5°C (±10°F)
120 V RMS (continuous)
240 V RMS (30 seconds maximum)
3 least-significant digits blanked
0.5 μA
70 dB

120 dB
±1500 Vp per high voltage test
±354 Vp per IEC spacing
POLYLOG III
By internal push-on jumpers

±0.08 degrees/degree
0.01% R/°C
Less than 15 minutes
<table>
<thead>
<tr>
<th>MODEL</th>
<th>RANGE</th>
<th>OVERALL ERROR</th>
<th>RESOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCK °C</td>
<td>0 TO 277°C</td>
<td>±1.8°C</td>
<td>1°C</td>
</tr>
<tr>
<td>(DP2000K)</td>
<td>+277 TO 1260°C</td>
<td>±0.6% R</td>
<td></td>
</tr>
<tr>
<td>BSCK °F</td>
<td>+32 TO 530°F</td>
<td>±3.0°F</td>
<td>1°F</td>
</tr>
<tr>
<td>(DP2000K)</td>
<td>530 TO 1999°F</td>
<td>±0.6% R</td>
<td></td>
</tr>
</tbody>
</table>

10.0 SIGNAL INPUT CONNECTIONS (TB1)

10.1 The signal input connections for the BSCK (DP2000K) Type K, Thermocouple signal conditioner are made at the standard 3-terminal barrier strip:

<table>
<thead>
<tr>
<th>Terminal Connection</th>
<th>Signal</th>
<th>Type K Thermocouple</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Analog ground</td>
<td>RED</td>
</tr>
<tr>
<td>5</td>
<td>-S Signal LO</td>
<td>YELLOW</td>
</tr>
<tr>
<td>6</td>
<td>+S Signal HI</td>
<td></td>
</tr>
</tbody>
</table>

![3 TERMINAL SIGNAL](image)

REAR TERMINAL VIEW

FIGURE 1. SIGNAL INPUT CONNECTIONS
11.0 TESTS AND DIAGNOSTICS

- The signal conditioner board BSCK (DP2000K) is designed to function with a main assembly as a minimum configuration. There is no provision for testing a signal conditioner board alone.

- Signal input requirements for your configuration are identified in the specifications for the BSCK (DP2000K) signal conditioner.

- Operating power and connections for your configuration are identified in the Main Assembly section of this manual.

- Inspect the OMEGAROMETER Process Monitor for physical damage. If damage is apparent, contact OMEGA Engineering at 1-800-622-2378. Save all packing materials.

FUNCTIONAL ELECTRICAL TESTING:

1. Short terminals 5 and 6 on barrier strip (TB1).

2. Apply proper power for your configuration to terminals 1, 2 and 3 on barrier strip (TB1).

3. Display will read approximately ambient room temperature.
12.0 CONFIGURATION PROCEDURE

12.1 GENERAL

This procedure is used to determine the configuration of the OMEGAROMETER DP2000K - thermocouple option (BSCK).

The unit can be configured using the push-on jumpers provided separately or already positioned on the pin forests. Pin forest designations are shown at the top of every page of configuration charts.

12.2 INSTALLATION

Select the degrees format required after calibration.

If a decimal point is required, refer to the Main Assembly Section DP20/DP29 for location and configuration procedure.
Step 1: Remove all push-on jumpers not used in the desired configuration(s).

Step 2: Select the desired configuration from the chart below, then install the push-on jumpers indicated.

<table>
<thead>
<tr>
<th>Degrees Configuration</th>
<th>S1</th>
<th>Used On</th>
</tr>
</thead>
<tbody>
<tr>
<td>K1</td>
<td>A</td>
<td>C</td>
</tr>
<tr>
<td>K2</td>
<td>B</td>
<td>D</td>
</tr>
</tbody>
</table>
14.0 CALIBRATION

14.1 DEGREES CALIBRATION

For the following procedure, use a precision millivolts source connected as shown in the figure below. Alternately, a standard thermocouple calibrator can be used which does not require an ice bath for cold junction compensation. When using a thermocouple calibrator dial in the temperature required for each reading in the procedure.

NOTE: After calibration is completed the zero should be adjusted for each thermocouple used.

14.2 DEGREES "C" CALIBRATION

Install push-on jumpers S1-A, and S1-C per Section 13.0.
Apply an input of 0 V and adjust R1 (zero) for a reading of 000.
Apply an input of +48.83 mV and adjust R2 (span) for a reading of 1200.

14.3 DEGREES "F" CALIBRATION

To calibrate °F requires °C to be calibrated first see Section 14.2 then proceed as follows:

Remove and replace push-on jumpers S1-A and S1-C with push-on jumpers S1-B and S1-D per Section 13.0
Apply an input of 0 V and adjust R1 (zero) for a reading of 032.
Apply and input of +38.83 mV and adjust R24 for reading of 1720.
IMPORTANT:
For proper installation electrical connections must be made according to the model number on the meter label. Write the model number in the following space and use the appropriate instructions for your model number.

--- Power requirement (Section 16.3)
  --- Analog output (see Analog Output Manual)
    --- Control output (see Control/Interface Manual)
    --- Signal input (Section 16.4)

Model number DP2

16.1 UNPACKING & INSPECTION

Your OMEGAROMETER PROCESS MONITOR meter was systematically inspected and tested, then carefully packed before shipment.

Unpack the instrument and inspect for obvious shipping damage. Notify the freight carrier immediately upon discovery of any shipping damage.
16.2 MECHANICAL INSTALLATION

1. Insure that the panel cutout dimensions are as shown on Figure 1.

2. Remove the lower printed circuit board edge connector, (if installed) J1, by pushing two molded plastic tabs away from the connector body and pulling the connector off the printed circuit board. Remove the printed circuit board edge connector, J2, if upper board output option was ordered.

3. Loosen two clamp screws on the rear of the case enough to rotate the two slide clamps.

4. Slide the two slide retainers toward the rear of the case and remove them.

5. From the front of the panel, insert the meter into the panel cutout.

6. Slide the slide retainers back onto the case and push up tightly against the rear of the panel.

7. Rotate the slide clamps back into their original position and tighten enough to hold the case in place. Overtightening can break the clamps.

8. Install the lower printed circuit board edge connector, if supplied, by pushing it on to the printed circuit board connections. Install the upper printed circuit board edge connector, if used.

FIGURE 1. PANEL CUTOUT DIMENSIONS AND INSTALLATION
16.3 POWER REQUIREMENTS AND CONNECTIONS (TB1)

16.3.1 The standard meter is wired to operate from one of five power sources.

<table>
<thead>
<tr>
<th>Models</th>
<th>Power Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP20XXX, DP21XXX,</td>
<td>120 Vac (50-60 Hz)</td>
</tr>
<tr>
<td>DP22XXX, DP23XXX,</td>
<td>240 Vac (50-60 Hz)</td>
</tr>
<tr>
<td>DP24XXX, DP25XXX,</td>
<td>9-32 Vdc</td>
</tr>
<tr>
<td>DP26XXX, DP27XXX,</td>
<td>5 Vdc</td>
</tr>
<tr>
<td>DP28XXX, DP29XXX,</td>
<td>24 Vac (50-60 Hz)</td>
</tr>
</tbody>
</table>

16.3.2 Regardless of the power source used, connections are made to the same terminal barrier strip, TB1, as follows:

**REAR TERMINAL VIEW**

<table>
<thead>
<tr>
<th>TB1 Terminal Connection</th>
<th>AC Operation</th>
<th>Wire Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>24 V, 120 V, 240 V</td>
<td>Black</td>
</tr>
<tr>
<td>2</td>
<td>AC power HI</td>
<td>White</td>
</tr>
<tr>
<td>3</td>
<td>AC power LO (neutral)</td>
<td>Green</td>
</tr>
</tbody>
</table>

**TB1 Terminal Connection**

<table>
<thead>
<tr>
<th>DC Operation</th>
<th>Wire Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Connection</td>
<td></td>
</tr>
<tr>
<td>DC power +</td>
<td></td>
</tr>
<tr>
<td>DC power - (return)</td>
<td></td>
</tr>
</tbody>
</table>
16.4 SIGNAL INPUT CONNECTIONS (TB1)

The signal input connections for the BSCK (DP2000K) Type K, Thermocouple signal conditioner are made at the standard 3-terminal barrier strip:

<table>
<thead>
<tr>
<th>Terminal Connection</th>
<th>Signal</th>
<th>Type K Thermocouple</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Analog ground</td>
<td>o RED</td>
</tr>
<tr>
<td>5</td>
<td>-S Signal LO</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>+S Signal HI</td>
<td>YELLOW</td>
</tr>
</tbody>
</table>

FIGURE 1. SIGNAL INPUT CONNECTIONS
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 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 should malfunction, 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 being 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 which wear are not warranted, including but not limited to contact points, fuses, and triacs.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by it will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a “Basic Component” under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

RETURN REQUESTS / INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA’S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

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. P.O. 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.

FOR NON-WARRANTY REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:
1. P.O. number to cover the COST of the repair,
2. Model and serial number of 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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