MAINTENANCE

Generally, with normal usage, this calibrator should hold its rated specifications for at least 12 months. Beyond this, it should remain within 1.5X of its specification over its useful life, provided it is not abused or tampered with. If after the warranty period, it needs servicing or calibration, it can be returned to Omega for re-calibration. Please call 1-800-826-6342 for pricing and return information.

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Except as otherwise noted, calibrators are warranted by OMEGA for a period of one year from the date of purchase. This warranty is limited to the repair or replacement of the unit at our factory. OMEGA reserves the right to alter specifications without notice.

OMEGA accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

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www.omegamanual.info

for customer service:
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**GENERAL DESCRIPTION**

The CL230 is designed to be a simple to use, high accuracy RTD Calibrator capable of either simulating or reading several common RTD Types. When being used as an RTD simulator the CL230 can calibrate a wide range of RTD Transmitters and recording devices due to its low excitation current capability. The step and scroll keys allow the user to make output changes quick and easily.

**INSTALLATION**

**UNPACKING**

Remove the Packing List and verify that all equipment has been received. If there are any questions about the shipment, please call Omega’s Customer Service Dept. at 1-800-826-6342. When you receive the shipment, inspect the container and equipment for any signs of damage. Note any evidences of rough handling in transit. Immediately report any damage to the shipping agent.

**OPERATING PROCEDURE**

The carrier will not honor any claims unless all shipping material is saved for their examination. After correct. Too low of excitation current or pulsed excitation current will be indicated by the word “OPEN” operated across the RTD is equal to the current traveling through it times its resistance. Therefore, for a fixed current, the voltage measured will be directly proportional to the temperature.

The transmitter under test supplies an excitation current, the voltage measured will be directly proportional to the temperature. Unlike a thermocouple, it does not “put out” a voltage or current but is strictly a passive device. Because of this, a current must be passed through the RTD and then amplified by the measuring device. Ohm’s Law is a simple algebraic expression which describes the relations between voltage, current, and resistance. Ohm’s Law states: \( V = I \times R \) where \( V \) = Voltage, \( I \) = Current, \( R \) = Resistance.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Notes:</th>
<th>1 A low battery indication is given at 5.5 volts.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ranges</td>
<td>PT385 -200 to 850°C</td>
</tr>
<tr>
<td></td>
<td>PT392 -200 to 850°C</td>
</tr>
<tr>
<td></td>
<td>Ni120 -80 to 320°C</td>
</tr>
<tr>
<td></td>
<td>Jis.392 -200 to 850°C</td>
</tr>
<tr>
<td>Resolution</td>
<td>±0.1°C or 1°F</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.125 to 2.0mA continuous</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>0 to 50°C</td>
</tr>
<tr>
<td>Storage Temp.</td>
<td>-20 to 60°C</td>
</tr>
<tr>
<td>Temperature Coef.</td>
<td>±0.015°F/C</td>
</tr>
<tr>
<td>Power</td>
<td>9V alkaline battery</td>
</tr>
<tr>
<td>Case Size</td>
<td>4.37” x 3.15” x 5.7”</td>
</tr>
<tr>
<td>Weight</td>
<td>12 oz.</td>
</tr>
</tbody>
</table>