**Warranty**

OMEGA warrants this unit to be free of defects in materials and workmanship and to give satisfactory service for a period of 13 months from date of purchase. OMEGA warrants its products for a period of one (1) year from the date of purchase. 

**RePAIRS, RETURNS,**

Quick Configuration Mode

Reference Information

**START 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. However, 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; misuse or other operating conditions outside of OMEGA's control. Components which wear or which are damaged by misuse are not warranted. These include contact points, fuses, and transistors. OMEGA is glad to offer suggestions on the use of its various products. Nevertheless, OMEGA only warrants 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 TOLL 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 warranty, 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. Every precaution for accuracy has been taken in the preparation of this manual; however, OMEGA ENGINEERING, INC. neither assumes responsibility for any omissions or errors that may appear nor assumes liability for any damages that result from the use of the products in accordance with the information contained in the manual.

**Special Condition:** Should this equipment be used in or with any nuclear installation or activity, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of this equipment in such a manner.

**RETURN REQUESTS / INQUIRIES**

Direct all warranty and repair requests/inquiries to the OMEGA ENGINEERING, INC. Customer Service Department. Before returning any products to OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (ANY 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.

**For Warranty/ Repair, please follow the below steps before contacting OMEGA:**
1. P.O. number under which the product was PURCHASED.
2. Model and serial number of the product under warranty.
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.

**For Non-Warranty Repairs or Calibration:** contact OMEGA for direct repairable change changes. Have the following information available before contacting OMEGA:
1. P.O. number to cover the COST of the repair/calibration, and any specific problems relative to the product.
2. Model and serial number of the product, and any specific problems relative to the product.
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.

**SPECIAL INFORMATION:**

Engineered with utmost care and attention to detail, this equipment undergoes stringent tests and thorough inspections before being certified to OMEGA's quality standards. It is the policy of OMEGA to comply with all worldwide safety and EMC/EMI regulations that apply. OMEGA is constantly updating and improving its products to meet the ever-changing regulations and standards. It is recommended that users regularly check for updates and upgrades to ensure that their equipment remains compliant. OMEGA will add the mark to every appropriate device upon certification.

**S1 - S3 Jumpers**

**Meter Information**

**Meter Mode**

**Run Mode** - The meter is in the run mode when the display is actively showing a process.

**Configuration Mode** - The meter is in the configuration mode when you press the MENU button to enable meter configurations.

**Jumpers**

The following table gives you information about jumpers. Refer to the illustration below for exact jumper location. Refer to the Operator’s Manual for additional jumper information.

<table>
<thead>
<tr>
<th>S1</th>
<th>S2</th>
<th>S3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Removed: 24 V excitation</td>
<td>Removed: All buttons operable</td>
<td>Shows in run mode only</td>
</tr>
<tr>
<td>Shows: 24 V excitation</td>
<td>Shows PEAK when /MAX button is pressed</td>
<td>Shows: PEAK when /MAX button is pressed</td>
</tr>
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</tr>
</tbody>
</table>

**Configuration Mode**

The following table lists display prompts that appear when the meter has configured to pH correctly.

<table>
<thead>
<tr>
<th>InP</th>
<th>dEc.P</th>
<th>ScAL</th>
<th>LivE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-20 only</td>
<td>FF.00</td>
<td>XXXX</td>
<td>only</td>
</tr>
</tbody>
</table>

**Tare**

The following buttons enable tare functions in the run mode:

<table>
<thead>
<tr>
<th>T-RST</th>
<th>VrST</th>
<th>PEAK</th>
</tr>
</thead>
<tbody>
<tr>
<td>active when RESET is pushed</td>
<td>active when RESET is pushed</td>
<td>active when RESET is pushed</td>
</tr>
<tr>
<td>active when RESET is pushed</td>
<td>active when RESET is pushed</td>
<td>active when RESET is pushed</td>
</tr>
</tbody>
</table>

Tares brings display value to zero. If accidentally TARE, you can use T-RST to bring it back to normal.

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Using This Quick Start Manual

Use this Quick Start manual with your DP24-pH meter to power up, configure and scale your meter.

Specifications:
- Power: 115Vac 50/60 Hz; 230 Vac optional
- pH Controller:
  - Range: pH 0-14
  - Resolution: pH 0.01
  - Accuracy: pH 0.02
- Displays: 4 Digit red LED 13.7mm (0.54")
- Temperature Compensation: Manual or automatic 0-100°C using PT 1000 ohm RTD
- Output: 4 to 20 mA
- Connector: pH/BNC
- Dimensions: 1.77 x 3.66 x 3.94"

Wire the Meter
Connect wires to the J1 connector at the back of the meter as indicated below:
- J1-1 Black Wire
- J1-2 White Wire
- J1-3 Green Wire
- J4 is for 4 to 20mA output and a jumper should be between 2 and 3 if not used.

Mount the Meter
1. Cut a hole in your panel, as shown in the figure below.
2. Insert the meter into the hole. Be sure the front bezel is flush to the panel.

Connect the Sensor Input
Connect the BNC connector from the pH sensor to J5, and the ATC to J2. When ATC is needed the 1.1K resistor supplied by the factory should be at J2. If ATC is needed then remove the resistor, and connect the Pt 1K wires at J2-1 and 3.

Apply Power
Plug in the meter. There is no power switch, so the meter will be active as soon as you apply power.

Configuring and Calibrating Your Meter
1. Press MENU. The meter momentarily shows "InP", then shows last saved input range.
2. Configure the input range by pressing ▲/MAX to select 4-20mA.
3. Press MENU to store range. The meter momentarily shows "Stor", "dEc.P", and then shows the last saved decimal point location.
4. Configure the decimal point location by pressing □/TARE to select FF.FF.
5. Press MENU to store decimal point. The meter momentarily shows "Stor", "ScAL", and then shows the last saved scaling method.
6. Press ▲/MAX, □/TARE to select "int" or "LivE" scaling. "int" is internal scaling, or scaling without known loads. "LivE" is applying known input to a sensor.

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