Warranty

All Products from NEWPORT ELECTRONICS, INC. are warranted against defective material and workmanship for a period of one (1) year from the date of delivery.

If the unit should malfunction, it must be returned to the factory for evaluation. Our Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by NEWPORT, 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 consumption; or current, heat, moisture or vibration; Improper specification; misapplication; misuse or other operating conditions outside of NEWPORT’s control. Components which wear or which are damaged by misuse are not warranted. These include contact points, fuses, and triacs.

In addition to our standard warranty period, NEWPORT ELECTRONICS will extend the warranty period for one (1) additional year only if the warranty card enclosed with each instrument is returned to NEWPORT.

We are glad to offer suggestions on the use of our various products. Nevertheless, NEWPORT warrants only that the parts manufactured by it will be as specified and free of defects. NEWPORT does not warrant the design, operation or performance of any product manufactured by anyone other than NEWPORT, even if NEWPORT assists in its design or operation.

The following buttons enable tare functions in the run mode:

- TARE
- T-RST
- MAX

The following table displays list prompts that appear when the meter has configured to pH correctly.

**Table:**

<table>
<thead>
<tr>
<th>pH Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00-14.00</td>
<td>pH Value</td>
</tr>
</tbody>
</table>

** forgiveness**

RETURN POLICY

RETURN REQUESTS: Please have the following information available BEFORE contacting NEWPORT:

1. P.O. number to cover the cost of repair charges.
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems you are having with the product.

FOR NON-WARRANTY REPAIRS: Consult NEWPORT for current repair charges. Have the following information available BEFORE contacting NEWPORT:

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 you are having with the product.

REPAIRS, Warranty Reference Information

evaluation. Our Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by NEWPORT, 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 consumption; or current, heat, moisture or vibration; Improper specification; misapplication; misuse or other operating conditions outside of NEWPORT’s control. Components which wear or which are damaged by misuse are not warranted. These include contact points, fuses, and triacs.

Configuration 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.

Components which wear or which are damaged by misuse are not warranted. These include contact points, fuses, and triacs.

Configuration Mode

START

Meter Modes

- The meter is in the run mode when the display is actively showing a process.
- Configuration mode when you press the MENU button to enable meter configurations.

The following table lists display prompts that extend the warranty period for one (1) additional year only if the warranty card enclosed with each instrument is returned to NEWPORT.

**Table:**

<table>
<thead>
<tr>
<th>Display Prompt</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00-14.00</td>
<td>pH Value</td>
</tr>
</tbody>
</table>

Nevertheless, NEWPORT warrants only that the parts manufactured by it will be as specified and free of defects. NEWPORT does not warrant the design, operation or performance of any product manufactured by anyone other than NEWPORT, even if NEWPORT assists in its design or operation.

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:**

<table>
<thead>
<tr>
<th>Jumper Description</th>
<th>Jumper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Removed: 24 V excitation</td>
<td>S1</td>
</tr>
<tr>
<td>Installed: Front-panel buttons locked out</td>
<td>S2</td>
</tr>
<tr>
<td>Installed: PEAK shows when</td>
<td>S3</td>
</tr>
</tbody>
</table>

**Diagram:**

S1 - S3 Jumpers

**Shows in run mode only**

Jumper

S1
- Removed: 24 V excitation

S2
- Installed: Front-panel buttons locked out
- Removed: All buttons operable

S3
- Installed: PEAK shows when
- A/MAX button is pushed.
- PrT (Peak Reset) is active when
- RESET is pushed. Press A/MAX to show PEAK value.
- Removed: VALLEY shows when
- A/MAX button is pushed.
- ViST (Valley Reset) is active when
- RESET is pushed. Press A/MAX to show VALLEY value.

**Shows only if you press the A/MAX button.**

Tare

The following buttons enable tare functions in the run mode:

- TARE
- T-RST
- MAX

**Displays value to zero.**

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

**Configuration Mode**

**Table:**

<table>
<thead>
<tr>
<th>pH Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00-14.00</td>
<td>pH Value</td>
</tr>
</tbody>
</table>

**menu**

- TARE
- MAX

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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: pHBNC
- 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 not 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 ▼/TARE 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 ▼/TARE to select “int” or “LivE” scaling. “int” is internal scaling, or scaling without known loads. “LivE” is applying known input to a sensor.
7. Press ▲/MAX. The display momentarily flashes “rd 1”, then shows the low calibrated value.
8. If you selected “LivE”, put pH sensor in 4.00 buffer and enter 4.00 on display. Press ▲/MAX and ▼/TARE to enter 4.00 on display.
9. Press MENU. The display momentarily flashes “rd 2”, then shows the high calibrated value.
10. If you selected “LivE”, put pH sensor in 7.00 buffer and enter 7.00 on display. Press ▲/MAX and ▼/TARE to enter 7.00 on display.
11. Press MENU to store new scale factor and return to the run mode.
12. The Calibration is now complete.

* Represents the Microprocessor revision code. Write this number down. You will need this number if you call OMEGA Customer Service for assistance.