To Configure Meter Inputs:

1. Press MENU until the meter displays:

2. Press MIN to display:

3. Press MAX, if necessary to change the configuration value.

4. Repeat steps 2 and 3 for INP2 through INP7.

5. Press MENU

The meter displays:

6. Press MENU

The meter displays:

7. Press RESET twice.

The meter flashes and then displays a value.

Your meter is now in RUN mode and operational.

Configure Reading Offset

Now that you are in the run mode with a transducer connected to the meter, do the following:

1. Simulate a load on the transducer (leave the pressure pot open).

2. Note the display reading. Let’s assume the display shows "43.5".

3. To make the display show zeroes, press MENU until the meter displays:

4. Press MIN to display the previous reading offset value.

5. Using MIN to scroll through the digits and MAX to change the value, enter the value -0043.5

Configure Reading Offset (continued)

6. Press MENU

The meter displays:

7. Press RESET twice.

The meter flashes and then displays a value.

Your meter is now in RUN mode and operational.

To Set Decimal Point Position:

1. Press MENU until the meter displays:

2. Press MIN to display:

3. Press MAX to move the decimal point to the desired location.

4. Press MENU.

The meter displays:

The typical setting for your meter is unipolar. If, however, you have bipolar input ±50mV, you must install jumper S1B. Remove the outer panel mounting sleeve to expose the jumper.

If You Have Bipolar Input ±50mV

The meter displays:

S1 Jumper Location on Signal Input Board

In addition, you must set configuration menu value INP3=1 (under IN CNF menu). Refer to the Configuration sections of this Quick Start manual.

WARRANTY/CLAIMS

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of 61 months from date of purchase. OMEGA’S WARRANTY adds an additional one (1) month to the normal 60-month (5) 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. If your 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.

OMEGA’s policy is to make running changes, not model changes, under which the product was PURCHASED, and Return requests/Inquiries, Warranty, Non-Warranty, Repair Instructions and/or specific problems relative to the product.

RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to OMEGA’s 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.

For WARRANTY RETURNs, FOR NON-WARRANTY REPAIRs, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED.

2. Model and serial number of 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 improvement is possible. This affects our customers the latest in technology and engineering.

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To Configure Type of Input:

1. Press MENU until the meter displays:

2. Press MODE to display a flashing input type.

3. Press MENU.

4. Press MENU and 3 (BRIDGE) stops flashing.

To Configure Meter Display Readings:

1. Press MODE to display:

2. Press MAX, if necessary, to change the configuration value to 0 or 1.

3. Repeat steps 1 and 2 for R0 through R7.

4. Press MENU.

The meter displays:

To Configure Scaling Factor:

1. Press MODE to display:

2. Press MAX to increase the value of the selected digit.

3. Repeat steps 1 and 2 until each digit is the desired value (your calculated scaling factor).

4. Press MENU.

The meter displays:

### Wiring a Millivolt Output Sensor

The following example shows wiring a bridge input to the meter.

1. Locate connectors P3 and P9 on the right-side rear of the unit.

2. Attach the wires and tighten the retaining screws. Tug gently on the wires to verify the connection.

### Wiring Example (Factory set at 10Vdc Excitation)

3. Apply ac power. The front panel of the unit flashes "RESET2". If it does not:
   a. Remove ac power.
   b. Verify the P1 power and sensor connections.
   c. Check your power source.
   d. Apply ac power again.
   e. Replace the rear cover slots on the side of the cover.
   f. From the rear of the panel, slide the sleeve forward over the case and the panel surface.
   g. Ensure the sleeve is flush with the panel.

### Determine Meter Scaling Factor

Calculate the scaling factor so the meter displays the desired engineering units. Assuming no known load, use the formula: 

\[
\text{RDG} \times C = \text{display span}/(\text{sensor’s mV/V output}) \times 10^{n} \]

where: \( \text{display span} \) is desired display at full scale, \( \text{sensor’s output span} \) is mV/V.

### Configure the Meter

Use the front panel buttons to access the configuration menus, to either verify or set the unit values. The first table that follows describes each menu. Use it to display the desired scale or unit in the front of the meter. The second table summarizes the key sequences you must press and the menu you will see to get your meter running. For a step-by-step procedure of specific tasks, refer to the configuration sections following.

#### Meter Button Descriptions

<table>
<thead>
<tr>
<th>Press This Button To:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enter and scroll through a submenu.</td>
<td>Change the value of a submenu.</td>
</tr>
<tr>
<td>Move backward one menu (press once), or exit the configuration menus (press twice).</td>
<td>Change the Setpoints.</td>
</tr>
</tbody>
</table>

#### Key Sequences and Menus

<table>
<thead>
<tr>
<th>MENU key</th>
<th>Submenu 1 (MAN) Action/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>L CNF</td>
<td>Skip past</td>
</tr>
<tr>
<td>L ENF</td>
<td>Skip past</td>
</tr>
<tr>
<td>L SNF</td>
<td>Skip past</td>
</tr>
<tr>
<td>L GP</td>
<td>Skip past</td>
</tr>
<tr>
<td>INPUT</td>
<td>Select meter input Sub Menu 1 choice (BRIDGE)</td>
</tr>
<tr>
<td>R1 EST</td>
<td>Scaling y = mx+b</td>
</tr>
<tr>
<td>R2 GE</td>
<td>Active decimal point</td>
</tr>
<tr>
<td>R3 GT</td>
<td>Normal display brightness</td>
</tr>
<tr>
<td>R4</td>
<td>Leading zeros suppressed</td>
</tr>
<tr>
<td>R5</td>
<td>Not used, skip past</td>
</tr>
<tr>
<td>R6</td>
<td>Activates RDG SC/OFF</td>
</tr>
<tr>
<td>R7</td>
<td>External hard reset vs peak reset</td>
</tr>
</tbody>
</table>

#### RDG SC

See previous formula in "Determine Meter Scaling Factor" section.

#### RDG 0 of 000000 |

#### INCF | INP0 | INP2 |
| 60 Hz ac power | Slow reading (STJ jumper omitted) | Unipolar input (STJ jumper omitted) |
| Std. for BRIDGE inputs | Not used, skip past | Disables INSC.OF (Input Scale & Offset) |

#### INCSD | INP2 |
| Select decimal point |

#### LUT | Set | Press RESET twice |

Now you are in RUN mode. If the meter does not read zero, refer to "Configure Reading Offset" section.