**RETURN REQUESTS/INQUIRIES**

If You Have Bipolar Input ±50mV

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.

**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 port 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 display shows:

   ![Display Showing Zeroes]

4. Press MAX to display the previous reading offset value.
5. Using MIN to scroll through the digits and MAX to change the value, enter the value.

   ![Display Showing Adjusted Value]

**Configure Meter Inputs**

1. Press MENU until the meter displays:

   ![Meter Displaying Configuration Menu]

2. Press MIN to display:

   ![Displaying First Input Configuration]

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

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

5. Press MENU.

   ![Returning to Default Display]

6. Press MENU a second time.

   ![Displaying Second Input Configuration]

7. Press RESET twice. The meter flashes and then displays a value.

   ![Displaying New Value]

Your meter is now in RUN mode and operational.

**If You Have Bipolar Input ±50mV**

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.
Using This Quick Start Manual

Use this Quick Start Manual to get your High Performance Strain Gage Indicator up and running right out of the box. These instructions use the factory default settings of 100mV unipolar input and 10 Vdc sensor excitation. If you have voltage or current input, refer to the main manual.

The latest complete Communication and Operational Manual as well as free Software are available at www.omega.com or on the CD-ROM enclosed with your shipment.

To start your unit:
• Connect ac power
• Wire the sensor
• Configure the meter, using the front panel buttons and the configuration menus

Your unit should have the following parts:
• Panel mounting gaskets
• Power Connector (orange P1), two input Connectors (P3 and P9), and rear protective cover (mounted).

For detailed instructions, refer to the appropriate section in the Operator’s Manual.

Before You Begin

In addition to the unit and related parts, you will need the following items to set up your unit:
• ac power as listed on meter's product/ID label
• External sensor (e.g.; load cell)
• 1/8" Phillips head screwdriver
• 1/8" flat blade screwdriver

Safety Consideration

This device is marked with the international Caution symbol.

The instrument is a panel mount device protected in accordance with EN 61010-1:2001, electrical safety requirements for electrical equipment for measurement, control and laboratory. Remember that the unit has no power-on switch. Building installation should include a switch or circuit-breaker that must be compliant to IEC 947-1 and 947-3.

SAFETY:
• 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 workbench without its case for safety reasons.
• Do not operate this instrument in flammable or explosive atmospheres.

EMC:
• 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 Beads on signal wire close to the instrument of EMC problems persist.

Mount the Unit
1. Cut a panel opening using the dimensions shown to the right.
2. Position the unit in the opening, making sure the front bezel/gasket is flush with the panel.
3. From the rear of the panel, slide the sleeve forward over the case and up to the panel surface.
4. The panel should now be sandwiched between the bezel-backed gasket in front and the sleeve in back.
5. Replace the thumbnuts that secure the sleeve tabs to the case.

Warning: Do not connect AC power to your device until you have completed all input and output connections. This device must only be installed by a specially trained electrician with corresponding qualifications. Failure to follow all instructions and warnings may result in injury!

Mounting the Unit and Wiring

1. Remove the rear protective cover and set it aside. The cover is secured with a Phillips-head screw.
2. Locate connector P1 on the bottom-left-rear of the unit. The connector has three screw-down terminals (see below).
3. Insert the correct wire in each terminal and tighten the lockdown screw. Tug gently on each wire to verify the connection.
4. Press MENU and /H17075

To Configure Input:

1. Press MENU until the meter displays:
2. Locate connector P1 on the bottom-left-rear of the unit. The connector has three screw-down terminals (see below).

3. Insert the correct wire in each terminal and tighten the lockdown screw. Tug gently on each wire to verify the connection.

Connect ac Power

1. Remove the rear protective cover and set it aside. The cover is secured with a Phillips-head screw.
2. Locate connector P1 on the bottom-left-rear of the unit. The connector has three screw-down terminals (see below).
3. Insert the correct wire in each terminal and tighten the lockdown screw. Tug gently on each wire to verify the connection.

Wiring Example (Factory set at 10 Vdc 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.
4. Replace the rear cover. Thread the sensor wires through the slots on the side of the cover. Replace the rear cover retaining screw.

Determine Meter Scaling Factor

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

\[
RDG SC = \frac{\text{display span}}{\text{sensor's mV/V output}} \times 10000
\]

where:
• display span = desired display at full scale
• sensor's output span = mV/V

To Configure Type of Input:

1. Press MENU until the meter displays:
2. Press /MIN to display a flashing input type.
3. Press MENU.
5. Press MENU.
6. The meter displays:

To Configure Meter Display Readings:

1. Press /MIN to display:
2. Press /MAX, if necessary to change the configuration value to 0 or 1.
3. Repeat steps 1 and 2 for /BRIDGE through /R1.
4. Press MENU.
5. The meter displays:

To Configure Scaling Factor:

1. Press /MIN to display and to select the digit (or decimal point) you want to change.
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.
5. The meter displays:

To Configure Key Sequences and Menus:

1. Press MENU until the meter displays:
2. Press /MIN to display the menu:
3. Press /MAX to increase the value of the selected digit.
4. Repeat steps 1 and 2 until each digit is the desired value.
5. Press MENU.

To Configure Configuration Menu:

1. Press MENU until the meter displays:
2. Press /MIN to display a flashing input type.
3. Press MENU.
5. Press MENU.
6. The meter displays:

To Configure Reading Offset:

1. Press MENU until the meter displays:
2. Press /MIN to display:
3. Press /MAX, if necessary to change the configuration value to 0 or 1.
4. Repeat steps 1 and 2 for /BRIDGE through /R1.
5. Press MENU.
6. The meter displays:

To Configure Type of Input:

1. Press MENU until the meter displays:
2. Press /MIN to display a flashing input type.
3. Press MENU.
4. The meter displays:

To Configure Key Sequences and Menus:

1. Press MENU until the meter displays:
2. Press /MIN to display the menu:
3. Press /MAX to increase the value of the selected digit.
4. Repeat steps 1 and 2 until each digit is the desired value.
5. Press MENU.

To Configure Reading Offset:

1. Press MENU until the meter displays:
2. Press /MIN to display:
3. Press /MAX, if necessary to change the configuration value to 0 or 1.
4. Repeat steps 1 and 2 for /BRIDGE through /R1.
5. Press MENU.
6. The meter displays:

To Configure Configuration Menu:

1. Press MENU until the meter displays:
2. Press /MIN to display a flashing input type.
3. Press MENU.
5. Press MENU.
6. The meter displays: