Configure Reading Offset (continued)

1. Press MENU until the meter displays:

```
  SETPTS /MIN MENU RESET/MAX
```

2. Press MAX to display:

```
  INFS
```

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

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

5. Press MENU

The meter displays:

```
  S1
```

6. Press MENU.

The meter displays:

```
  S2
```

7. Press RESET twice.

The meter flashes and then displays a value.

Your meter is now in RUN mode and operational.

If You Have Bipolar Input ±50mV

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

Configure Offsetting

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 meter displays:

```
  00-00-00
```

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

5. Using MAX to scroll through the digits and change the value, enter -0043.5.
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.newportus.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
- ac 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 work bench without its case for safety reasons.
- Do not operate this instrument in flammable or explosive atmospheres.

Warning: When 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 Bead(s) on signal wire close to the instrument if 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.

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.

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

RDG SC = display span / (sensor’s mV/V output) (10,000)

where:

- display span = desired display at full scale
- sensor’s output span = mV/V

Connect 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 functions of each button on the front of the meter. The second table summarizes the key sequences you must press and the menus you will see to get your meter running. For a step-by-step procedure of specific tasks, refer to the configuration sections following these tables.

Menu Button Descriptions

Press This Button To:

- Access the configuration program menus and move from one menu to the next.
- Enter and scroll through a submenu.
- Change the value of a submenu.
- Move backward one menu (press once), or exit the configurations menus (press twice).
- Change the Setpoints.

Key Sequences and Menus

<table>
<thead>
<tr>
<th>MENU key</th>
<th>Submenu 1 Action/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>L/CF</td>
<td>Skip past</td>
</tr>
<tr>
<td>L/CF</td>
<td>Skip past</td>
</tr>
<tr>
<td>L/CF</td>
<td>Skip past</td>
</tr>
<tr>
<td>INPUT</td>
<td>Select meter input</td>
</tr>
<tr>
<td>BRIDGE</td>
<td>Sub Menu 1 choice (BRIDGE)</td>
</tr>
</tbody>
</table>

RDG SC = see previous formula in "Determine Meter Scaling Factor" section

To Configure Type of Input:

1. Press MENU until the displays:

To Configure Scaling Factor:

1. Press ◄/MIN to display a flashing input type.
2. Press ◄/MAX, if necessary to change the configuration value to 0 or 1.
3. Repeat steps 1 and 2 for INPUT through P9.
4. Press MENU.

To Configure Meter Display Readings:

1. Press ◄/MIN to display:

2. Press ◄/MAX, if necessary to select the desired decimal point (or decimal point). You want to change.
3. Repeat steps 1 and 2 for P9 through P1.
4. Press MENU.

To Configure Display:

1. Press ◄/MIN 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.

To Display:

1. Press ◄/MIN 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: