Scaling With Known Loads (Continued)

6. Press MENU to store [RD]. The unit displays:

<table>
<thead>
<tr>
<th>Rd</th>
<th>I 1</th>
</tr>
</thead>
</table>

7. Press [TARE]. The unit displays the last setting for [RD].

8. Change [RD] as necessary:
   - Press [TARE] to change the digit(s) you want to change.
   - Press [N/D/G/RS] until the display shows the desired value for the flashing digit.
   - Values can range from 0 to 9. For the first digit, you can also enter a minus sign (-) or –1.

9. Press MENU to store the value shown for [RD].
   - The unit displays:

<table>
<thead>
<tr>
<th>Rd</th>
<th>I 1</th>
</tr>
</thead>
</table>

To identify the maximum load [RD] and [RD]:
1. Apply the maximum known load (100%).
2. Repeat steps 4-9 above, for [RD] and [RD].

Once you’ve completed all steps, the unit displays:

<table>
<thead>
<tr>
<th>SCRD</th>
<th>RDC.F</th>
<th>I 1</th>
</tr>
</thead>
</table>

Scaling Without Known Loads

For 0-100 mV sensors, the values for the minimum and maximum input loads are always as follows:
- Minimum load [RD] = 0
- Maximum load [RD] = 9999

If your installation uses a different sensor type, you must calculate the values for [RD] and [RD] and proceed with the steps below. Use the formula provided in the Operator’s Manual.

To define the minimum load [RD] and [RD]:
1. If it’s not already shown, press MENU until [RD] flashes on the display.
2. Press [TARE]. The unit displays:

<table>
<thead>
<tr>
<th>Rd</th>
<th>I 1</th>
</tr>
</thead>
</table>

3. Press [TARE] again. The unit displays the last setting for [RD].

4. Change [RD] as necessary:
   - Press [TARE] to change the digit(s) current value. Continue to press [N/D/G/RS] until the display shows the desired value for the flashing digit. Values can range from 0 to 9. For the first digit, you can also enter a minus sign (-) or –1.
   - Press [TARE] to scroll to the digit(s) you want to change.

5. Press MENU to store the value shown for [RD].
   - The unit displays:

<table>
<thead>
<tr>
<th>Rd</th>
<th>I 1</th>
</tr>
</thead>
</table>

6. Press [TARE]. The unit displays the last setting for [RD].

7. Change [RD] as necessary:
   - Press [N/D/G/RS] until the meter displays the desired value for the flashing digit. Values can range from 0 to 9. For the first digit, you can also enter a minus sign (-) or –1.

8. Press MENU to store the value shown for [RD].
   - The unit displays:

<table>
<thead>
<tr>
<th>Rd</th>
<th>I 2</th>
</tr>
</thead>
</table>

To define the maximum load [RD] and [RD]:
1. Repeat steps 3-8 above, entering the values for [RD] and [RD].
2. Once you’ve completed all steps, the unit displays:

<table>
<thead>
<tr>
<th>SCRD</th>
<th>RDC.F</th>
<th>I 2</th>
</tr>
</thead>
</table>

To begin operation:
Reinitialize the unit (press RESET twice or press MENU until [RD] flashes on the display). When a numeric reading appears, the unit is operational.

Determining Offset Reading
The run mode reading for meters scaled without known loads may reflect an offset. For example, say you set [RD] to 0 and [RD] to 100, but when the minimum load is applied, a negative value of –1.5 displays on the front panel.

To correct the reading offset:
1. With zero load applied, note the reading on the display.
2. Subtract that amount from the [RD] and [RD] values you originally entered.
3. In the example above, the offset would be subtracted from the [RD] to give –1.5. If [RD] to read 0 in Run Mode, it must be reentered as 1.5. [RD] must be reentered as 101.5 if the meter is to read 100 when the maximum load is applied.
4. Repeat the steps for “Scaling Without Known Loads,” but when the values for [RD] and [RD] display, do not change them. Instead, press MENU to move to the prompts for [RD] and [RD] and make the necessary changes.
5. Reinitialize the unit and resume operation.
Using This Quick Start Manual

Use this Quick Start Manual to set up your Strain Meter and begin operation. Information is provided on how to:
- Connect ac power
- Set basic options for operation

Connect the sensor
- Select the meter

Features with a "B" version which has three-color programmable "Big" LED display - All segment characters are shown for the "B" version.

IMPORTANT: For complete information on all setup options, please refer to the Operator’s Manual.

This Quick Start Manual includes specific configuration parameters for bridge sensors with an output range of 0–100 mV and 10 V excitation. Other sensor types may require different parameters or additional ones. When this is the case, we refer to the Operator’s Manual for detailed instructions.

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, electric safety requirements for electrical equipment for measurement, control and laboratory use. Ensure that the unit has AC power on-off 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.
- Do not 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.
- Do not expose this instrument to rain or moisture.

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/crosiered 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 is flush with the panel.
3. Install retaining clips on both sides of the meter and tighten against the panel.

Wiring

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!

1. Remove the panel at the back of the unit.
2. Locate the TB1 connectors.
3. Insert the correct wire in each terminal as shown in the following figure and tighten the locknut screws.
4. Tug gently on the wires to verify the connections.

External Fuse Required:
- Time-delay, UL 3104 listed
- Time-lag, IEC 127-3 recognized
- 80 mA (230 Vac line)
- 125 mA (115 Vac line)
- 330 mA (230 Vac line)

AC Powered Unit Connections

AC Power
- BATTERY POWER

Wiring (continued)

BridgeSensor with Internal Excitation

1. Connect the B2 connector on the rear of the unit.
2. Attach the sensor wires and tighten the lockdown screws.
3. Refer to the Operator’s Manual for setup requirements for other sensor types.

To Scale the Meter

You can scale the meter in one of two ways:
1. With a known load — This method uses input (load) information sent from another device such as a scale or a simulator for voltage or current.
2. Without a known load — This involves calculating the load based on transducer specifications and manually entering it to the meter.

For both methods, you must first identify the minimum input load and the corresponding display reading you want. Then you identify the minimum input load and its corresponding display reading.

To identify the minimum known load and its corresponding display reading, you set

1. If it's not already shown, press MENU until the unit displays:
2. Press MENU/TARE.
3. Press a INT/GRS to move the decimal point to the desired location. The factory settings is .500 and .500.
4. Press MENU to select the decimal point position shown. The unit displays:

Using the Configuration Menu (continued)

To Scale the Meter

1. Press MENU until the unit displays:
2. Press MENU/TARE.

Using the Configuration Menu

To configure the meter, you use the buttons on the front panel.

To: Take This Action:
- Display the Configuration Menu
- Press the MENU button. The first function displayed on the display.
- On the menu, press MENU once.
- Select a submenu function
- Press the MENU until the function you want is shown.
- Press MENU/TARE as it reinitializes. When a numeric
- The information you can change flashes.
- Select a value for that submenu function
- Press INT/GRS to display the option you want.
- Press MENU to store it. The unit displays quickly flashes, indicating that the selection has been stored in memory.
- Then the next menu function displays.
- Go back to previous menu function
- Press MENU/TARE again.

To Set the Input Type

1. Press MENU until the unit displays:
2. Press MENU/TARE.

To Set the Decimal Point

1. If it’s not already shown, press MENU until the unit displays:
2. Press MENU/TARE.

To Set the Input Type

1. Press MENU until the unit displays:
2. Press MENU/TARE.

Using the Configuration Menu

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