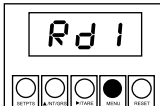


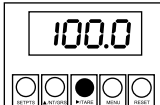
5

Scaling With Known Loads (Continued)

6. Press **MENU** to store **IN 1**. The unit displays:



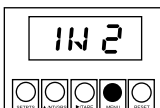
7. Press **►/TARE**. The unit displays the last setting for **Rd 1**.



8. Change **Rd 1** as necessary:

- Press **►/TARE** to scroll to the digit(s) you want to change (it flashes on the display).
- Press **▲/MAX** to change the value of the flashing digit. Values can range from 0 to 9. For the first digit, you can also enter a minus sign (–) or –1.

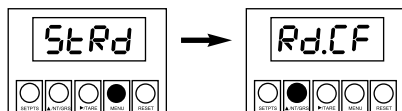
9. Press **MENU** to store the value shown for **Rd 1**. The unit displays:



To identify the maximum known load (**IN 2** and **Rd 2**):

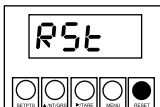
1. Apply the maximum known load (100%).
2. Repeat steps 4–9 above, for **IN 2** and **Rd 2**.

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



To begin operation:

Reinitialize the unit (press **RESET** twice or press **MENU** until **RSt** flashes on the display). When a numeric reading appears, the unit is operational.



Scaling Without Known Loads

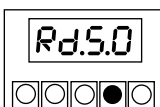
For 4-20 mA sensors, the values for the minimum and maximum input loads are always as follows:

- Minimum load (**IN 1**) — 2000
- Maximum load (**IN 2**) — 9999.

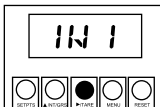
If your installation uses a different sensor type, you must calculate the values for **IN 1** and **IN 2** before proceeding with the steps below. Use the formula provided in the Operator's Manual.

To define the minimum load (**IN 1** and **Rd 1**):

1. If it's not already shown, press **MENU** until the unit displays:



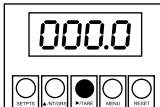
2. Press **►/TARE**. The unit displays:



6

Scaling Without Known Loads (Continued)

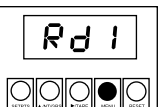
3. Press **►/TARE** again. The unit displays the last setting for **IN 1**. (The first digit flashes.)



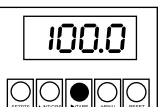
4. Change **IN 1** as necessary:

- Press **▲/MAX** to set or change the digit's current value. Continue to press **▲/MAX** 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.
- Press **►/TARE** to scroll to the digit(s) you want to change.

5. Press **MENU** to store **IN 1**. The unit displays:



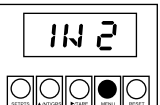
6. Press **►/TARE**. The unit displays the last setting for **Rd 1**. (The first digit flashes.)



7. Change **Rd 1** as necessary:

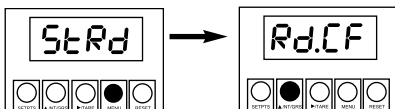
- Press **▲/MAX** until the meter displays the desired value for the flashing digit. Values can range from 0 to 9. For the first digit, you can also enter a minus sign (–) or –1.
- Press **►/TARE** to scroll to the digit(s) you want to change.

8. Press **MENU** to store the value shown for **Rd 1**. The unit displays:



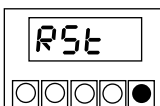
To define the maximum load (**IN 2** and **Rd 2**):

1. Repeat steps 3–8 above, entering the values for **IN 2** and **Rd 2**.
2. Once you've completed all steps, the unit displays:



To begin operation:

Reinitialize the unit (press **RESET** twice or press **MENU** until **RSt** flashes on the display). When a numeric reading appears, the unit is operational.



Determining Reading Offset

The run mode reading for meters scaled without known loads may reflect an offset. For example, say you set **Rd 1** to 0 and **Rd 2** 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 1** and **Rd 2** values you originally entered.

In the example, the offset would be –1.5. If **Rd 1** is to read 0 in Run Mode, it must be reentered as 1.5. **Rd 2** must likewise be reentered as 101.5 if the meter is to read 100 when the maximum load is applied.

3. Repeat the steps for "Scaling Without Known Loads," but when the values for **IN 1** and **IN 2** display, do not change them. Instead, press **MENU** to move to the prompts for **Rd 1** and **Rd 2** and make the necessary changes.
4. Reinitialize the unit and resume operation.

WARRANTY/DISCLAIMER

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 grace period to the normal **five (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. Upon 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 is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by the company will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA 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, 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 under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair or calibration,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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QUICK START

For complete product manual:

www.omega.com/manuals/manualpdf/M3597.pdf



DP25B-E
Process Panel Meter



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