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Reference Information

Meter Modes

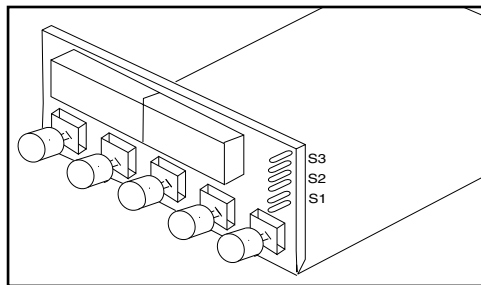Run Mode - The meter is in the run mode when the display is actively showing a process.

Configuration Mode - The meter is in the configuration mode when you press the MENU button to enable meter configurations.

Jumpers

The following table gives you information about jumpers. Refer to the illustration below for exact jumper location. Refer to the Operator's Manual for additional jumper information.

Jumper	Description
S1	*Installed:* 10 V excitation *Removed*: 24 V excitation
S2	*Installed:* Front-panel buttons locked out *Removed:* All buttons operable
S3	*Installed*: PEAK shows when ▲/MAX button is pushed. PrsT (Peak Reset) is active when RESET is pushed. Press ▲/MAX to show PEAK value.* *Removed*: VALLEY shows when ▲/MAX button is pushed. VrST (Valley Reset) is active when RESET is pushed. Press ▲/MAX to show VALLEY value.*

*Shows in run mode only

S1 - S3 Jumpers

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Configuration Mode

The following table lists display prompts that appear when the meter is in the configuration mode.

MENU	▶/TARE	▲/MAX
InP	0-10 4-20 20-4 0-5 1-5	
dEc.P	FFF.F FFFF. FFFF F.FFF FF.FF	
ScAL	int LivE	rd1* XXXX
		rd 2* *XXXX

* Shows only if you press the ▲/MAX button.

Tare

The following buttons enable tare functions in the run mode:

T-RST

Clears tare value

▶/TARE

Tares display value to zero.

⚠ This device is marked with the international caution symbol. It is important to read the Setup Guide before installing or commissioning this device as it contains important information relating to safety and EMC.

It is the policy of OMEGA to comply with all worldwide safety and EMC/EMI regulations that apply. OMEGA is constantly pursuing certification of its products to the European New Approach Directives. OMEGA will add the mark to every appropriate device upon certification.

The information contained in this document is believed to be correct but OMEGA Engineering, Inc. accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

WARNING: These products are not designed for use in, and should not be used for, patient connected applications.

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12172ML-99 Rev. E   MQS1866/0202

QUICK START

RoHS 2 Compliant

DP24-E

Process Meter

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Using This Quick Start Manual

Use this Quick Start manual with your meter to power up, configure and scale your meter. For detailed instructions, refer to the appropriate section in the Operator's Manual.

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!**
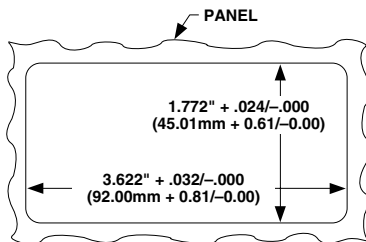
1. Locate the J1 connector.
2. Insert the correct wire in each terminal as shown in the following figure and tighten the lockdown screws.
3. Tug gently on the wires to verify the connections.
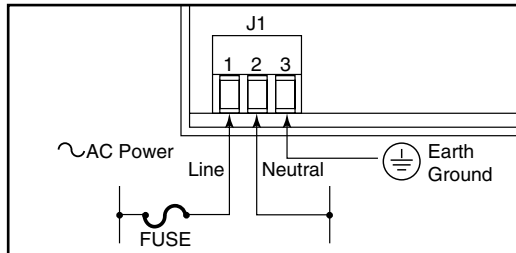
Main Power Connections - ac

Mount the Meter

1. Cut a hole in your panel, as shown in the figure below.

PANEL

1.772" + .024/–.000
(45.01mm + 0.61/–0.00)

3.622" + .032/–.000
(92.00mm + 0.81/–0.00)

2. Insert the meter into the hole. Be sure the front bezel is flush to the panel.
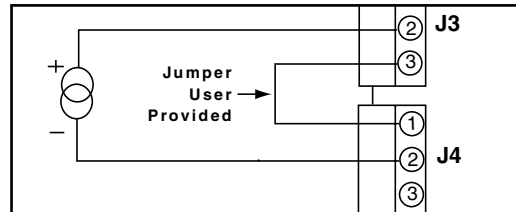
Connect the Sensor Input

Depending upon sensor input type, connect your sensors according to one of the following figures. If your sensor type is not shown, refer to Section 3 of the Operator's Manual.
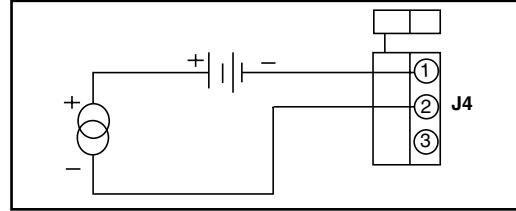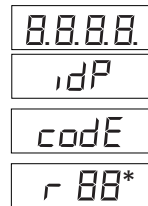

4 -20 mA Input with External Excitation
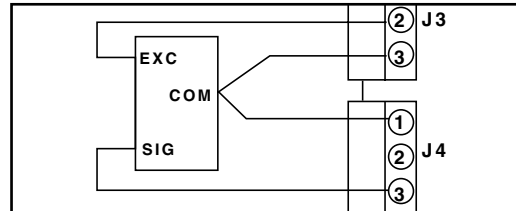
3-Wire dc Voltage Input with Internal Excitation

4-20 mA Transmitter with Internal Excitation

Apply Power

Plug in the meter. There is no power switch, so the meter will be active as soon as you apply power. The meter shows the following:

* Represents the revision code. Write this number down. You will need this number if you call Customer Service for assistance.
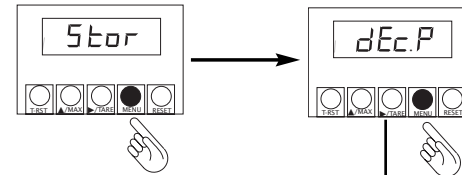
Configuring and Scaling Your Meter

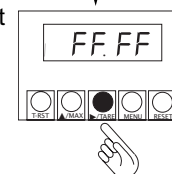1. Press MENU. The meter momentarily shows "*InP*", then shows last saved input range.
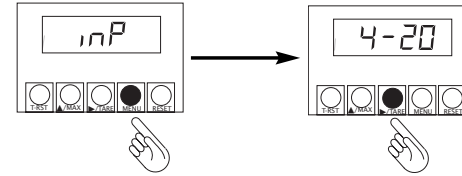
2. Configure the input range by pressing ▶/TARE to select from the following:
4-20mA, 20-4mA, 0-5V, 1-5V and 0-10V.

3. Press MENU to store range. The meter momentarily shows "Stor", "*dEc.P*", and then shows the last saved decimal point location.


4. Configure the decimal point location by pressing ▶/TARE to select from the following: FFF.F, FFFF., FFFF, F.FFF and FF.FF.
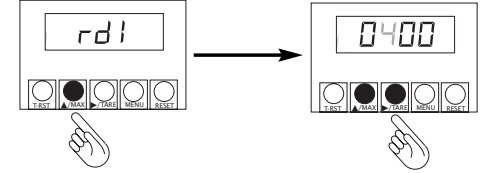

5. Press MENU to store decimal point. The meter momentarily shows "*Stor*", "*ScAL*", and then shows the last saved scaling method.
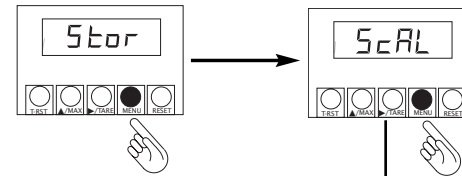
6. Press ▶/TARE to select "int" or "*LivE*" scaling. "*int*" is internal scaling, or scaling without known loads. "*LivE*" is applying known loads to a sensor.
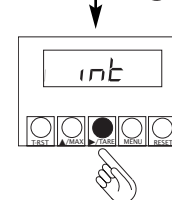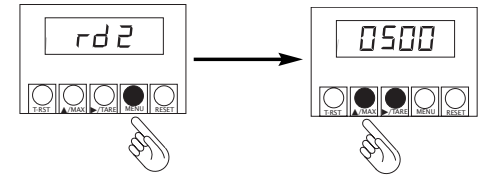
7. Press ▲/MAX. The display momentarily flashes "*rd 1*", then shows the low calibrated value.

8. *a. If you selected "int," enter the desired display corresponding to low input.*
(0Vdc, 1Vdc, 4mA)

*b. If you selected "LivE", apply low load to sensor and enter desired display.*

Press ▲/MAX and ▶/TARE to enter desired display.

9. Press MENU. The display momentarily flashes "*rd 2*", then shows the high calibrated value.

10. *a. If you selected "int", enter the desired display corresponding to high input.*
(10Vdc, 5Vdc, 20mA)

b. If you selected "LivE", apply full scale or 3/4 full scale load to sensor and enter desired display.

Press ▲/MAX and ▶/TARE to enter the desired display.

11. Press MENU to store new scale factor and return to the run mode.
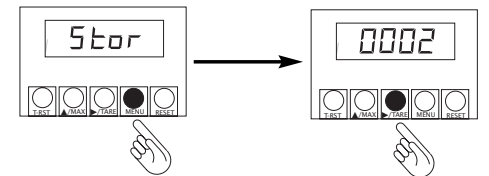
12. If the display is not zero, with no load on your sensor, press ▶/TARE. Scaling is now complete.