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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.

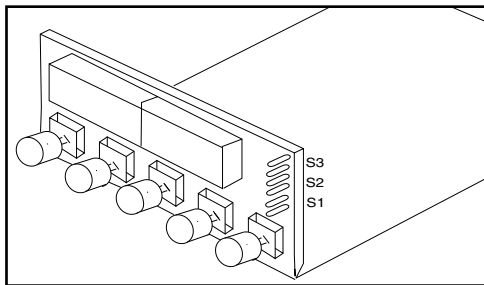
Configuration Mode - The meter is in the configuration mode when you press the MENU button to enable meter configurations.

**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	<i>Installed:</i> 10 V excitation <i>Removed:</i> 24 V excitation
S2	<i>Installed:</i> Front-panel buttons locked out <i>Removed:</i> All buttons operable
S3	<i>Installed:</i> PEAK shows when ▲/MAX button is pushed. PrST (Peak Reset) is active when RESET is pushed. Press ▲/MAX to show PEAK value.* <i>Removed:</i> 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. 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 NEWPORT to comply with all worldwide safety and EMC/EMI regulations that apply. NEWPORT is constantly pursuing certification of its products to the European New Approach Directives. NEWPORT will add the CE mark to every appropriate device upon certification.

The information contained in this document is believed to be correct but NEWPORT Electronics, 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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If the unit should malfunction, it must be returned to the factory for evaluation. NEWPORT's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by NEWPORT, if the unit is found to be defective it will be repaired or replaced at no charge. NEWPORT'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 being damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of NEWPORT's control. Components which wear are not warranted, including but not limited to contact points, fuses, and triacs.

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1. P.O. 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.

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

NEWPORT'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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**IDP Process Meter**



For immediate technical or application assistance please call:

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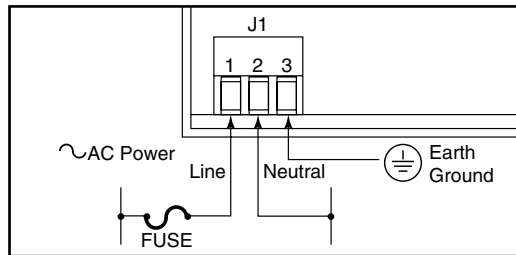
## Using This Quick Start Manual

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!

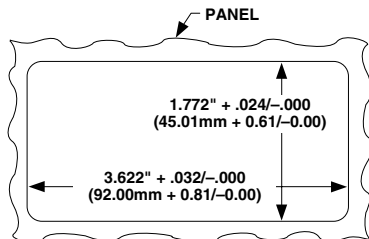
1. Locate the J1 connector.
2. Insert the correct wire in each terminal as shown in the following figure and tighten the lockdown screws.
3. Tug gently on the wires to verify the connections.



Main Power Connections - ac

## Mount the Meter

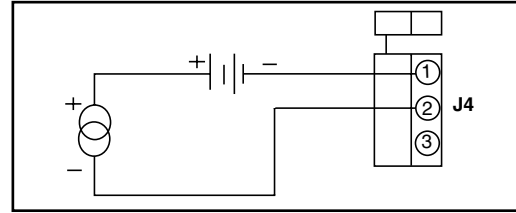
1. Cut a hole in your panel, as shown in the figure below.



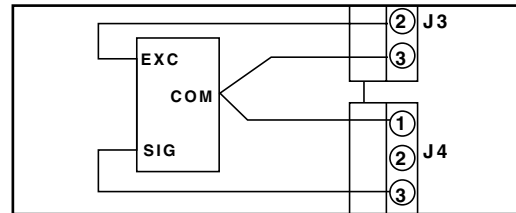
2. Insert the meter into the hole. Be sure the front bezel is flush to the panel.

## Connect the Sensor Input

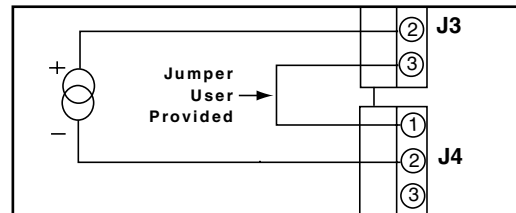
Depending upon sensor input type, connect your sensors according to one of the following figures. If your sensor type is not shown, refer to Section 3 of the Operator's Manual.



4-20 mA Input with External Excitation



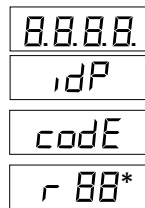
3-Wire dc Voltage Input with Internal Excitation



4-20 mA Transmitter with Internal Excitation

## Apply Power

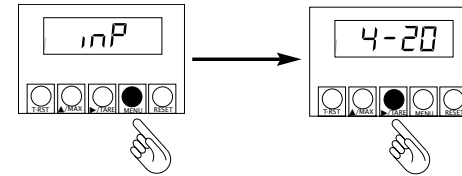
Plug in the meter. There is no power switch, so the meter will be active as soon as you apply power. The meter shows the following:



\* Represents the revision code. Write this number down. You will need this number if you call Customer Service for assistance.

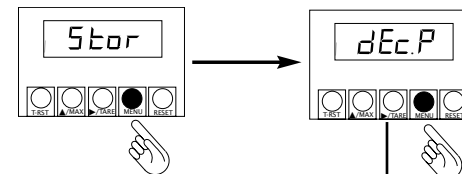
## Configuring and Scaling Your Meter

1. Press MENU. The meter momentarily shows "InP", then shows last saved input range.



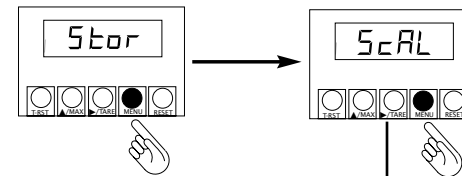
2. Configure the input range by pressing ►/TARE to select from the following: 4-20mA, 20-4mA, 0-5V, 1-5V and 0-10V.

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



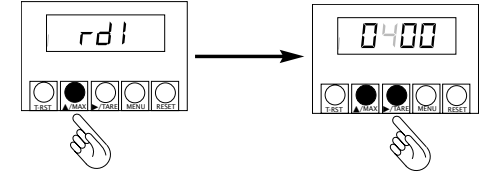
4. Configure the decimal point location by pressing ►/TARE to select from the following: FFF.F, FFFF., FFFF, F.FFF and FF.FF.

5. Press MENU to store decimal point. The meter momentarily shows "Stor", "ScAL", and then shows the last saved scaling method.



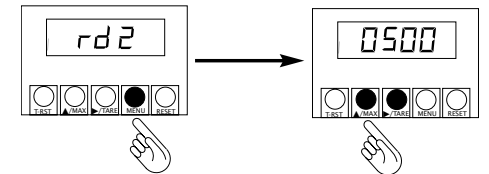
6. Press ►/TARE to select "int" or "Live" scaling. "int" is internal scaling, or scaling without known loads. "Live" is applying known loads to a sensor.

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.

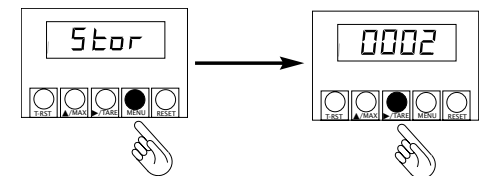
Press ▲/MAX and ►/TARE to enter desired display.



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.