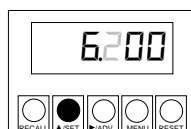
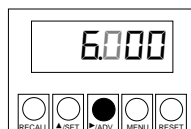
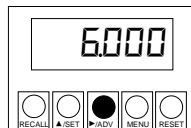
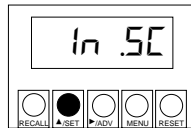
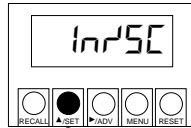
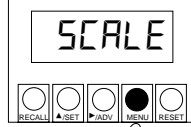


5

**To Change Scale Factor Value**

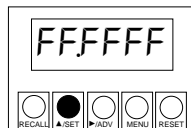
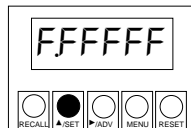
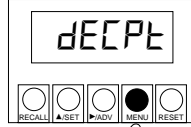
1. Press MENU until the display shows *SCALE*.
2. Press ▲SET to show the current mathematical operation.
3. Press ▲SET to select the setting from *InrSC* or *In.SC*.
4. Press ►ADV to show current scale factor value.
5. Press ►ADV to select the digit you want to change.
6. Press ▲SET to increase the value of the flashing digit.
7. Press MENU to store the value into volatile memory.



6

**To Change the Decimal Point Position:**

1. Press MENU until the display shows *dECPt*.
2. Press ▲SET to show the current location of the decimal point.
3. Press ▲SET to move the decimal point to the right. Continue to press ▲SET until the meter displays *Auto* for auto ranging.
4. Press MENU to store the decimal point into volatile memory.



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.

**!** 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.

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

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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.

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

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.

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**START HERE**

## Using this Quick Reference

Use this Quick Reference with your controller for information on wiring and to make changes to the operating mode, scale factor, and decimal point position. For detailed instructions, refer to the appropriate section in the Reference Manual.

### Safety Consideration

 This device is marked with the international "Caution, risk of danger" symbol.

The instrument is a panel mount device protected in accordance with EN61010-1 (Safety requirements for electrical equipment for measurement, control, and laboratory standard). 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:

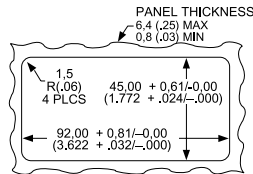
- Do not exceed voltage rating on the label located on the top of the instrument housing.
- Always disconnect power before changing signal and power connections.
- Do not use this instrument on a work bench without its case for safety reasons.
- Do not operate this instrument in flammable or explosive atmospheres.
- 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-pair cables.
- Install Ferrite Bead(s) on signal wire close to the instrument if EMC problems persist.

### Wiring

- Remove the panel at the back of the unit.
- Locate the TB1 connector.
- Insert the correct wire in each terminal as shown in the following figure and tighten the lockdown screws.
- Tug gently on the wires to verify the connections.



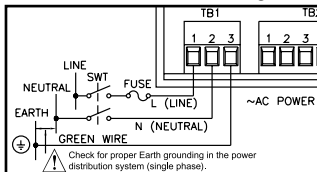
 **CAUTION: Do not connect AC power to your device until you have completed all input and output connections. This device must only be installed by a specially trained electrician with corresponding qualifications. Failure to follow all instructions and warnings may result in injury!**

### Mount the Unit

- Cut a panel opening using the dimensions shown to the right.
- Position the unit in the opening, making sure the front bezel is flush with the panel.
- Install retaining clips on both sides of the meter and tighten against the panel.

#### External Fuse Required:

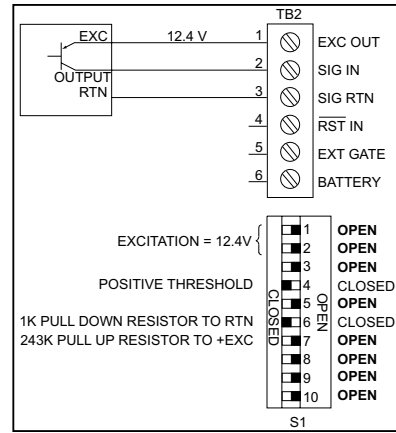
- Time-delay, UL 248-14 listed
- 125 mA (115 Vac line)
- 63 mA (230 Vac line)
- Time-lag, IEC 127-2 recognized
- 100 mA (115 Vac line)
- 50 mA (230 Vac line)



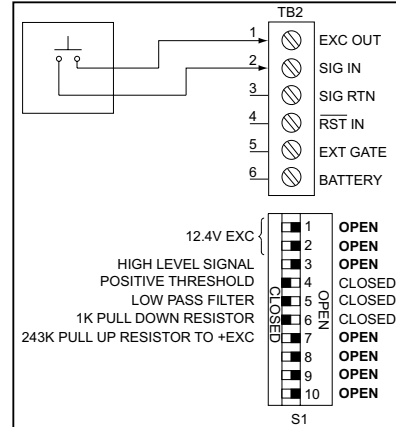
**AC Powered Unit Connections**

**2**

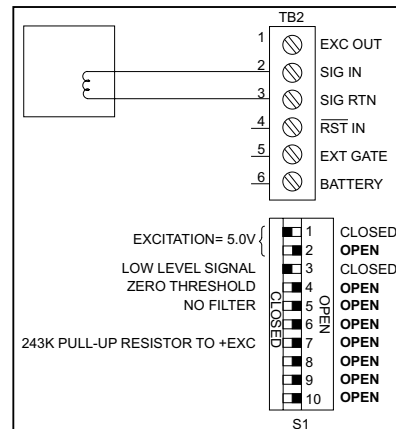
## Wiring Examples



**3-Wire Sensor Open Collector (PNP)**



**2-Wire Contact Closure**



**2-Wire Magnetic Pickup**

 **Note**

For complete wiring information on all setup options, please refer to the Operator's Manual.

**3**

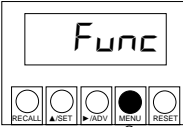
## Using the Menus


Menu Prompt	Menu Item	Prompt is starting point:
Func	Function	to select rate or totalize mode.
SCALE	Scale Factor	to select scale factor as a divider or multiplier and to enter scale factor value.
OFFSET	Offset Value	to select offset value. Reading on meter = $input \times scale + offset$
DEC Pt	Decimal Point	to select position of decimal point in the digital display.
SP LO	Setpoints Low and High	to enter setpoints. Shows only if the relay option board is installed.
CONF IG	Configuration	to program internal software switches to specify analog, output, RS-232 input or alarm conditions
An LO	Analog Low	to obtain reading for low analog output.
An HI	Analog High	to obtain reading for high analog output.
noStor	No Store	to save to the volatile (active) memory
StorE	Store	to save to the non-volatile (permanent) memory.

**4**


## To Select Operating Mode (Rate or Total):

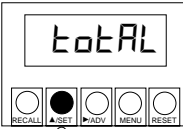
- Press MENU until the display shows *Func*.



- Press SET to show the current mode.




- Press SET to select between *rATE* and *total*.



- Press MENU to store the mode into volatile memory.



## To store the operating mode (or any value) into non-volatile memory:

- Press MENU until the meter displays *noStor*.
- Press SET once to display *StorE*.
- Press MENU again.

The value is stored in non-volatile memory.