

Using This Quick Start Manual

Use this Quick Start Manual to set up your controller and begin operation. Information is provided on how to:

- Connect ac power
- Connect sensor input
- Set basic options for operation

For complete information on all setup options, see the Operator's Manual.

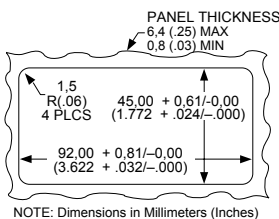
Before You Begin

In addition to the controller and the related parts, you will need the following items to set up your unit:

- ac power
- Sensor
- 1/8" flat blade screwdriver

Mount the Meter

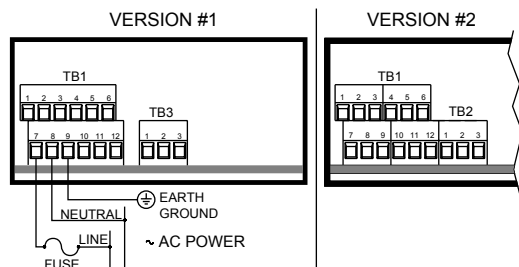
1. Cut a panel opening using the dimensions shown to the right.
2. Position the unit in the opening, making sure the front bezel is flush with the panel.



Connect ac Power

Warning: Do not connect ac power to your meter until you have completed all input and output connections. Failure to do so may result in injury!

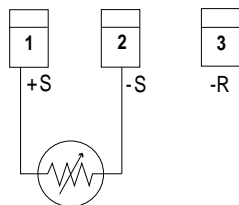
1. Remove the panel at the back of the unit.
2. Locate the TB1 connector.
3. Insert the correct wire in each terminal as shown in the following figure and tighten the lockdown screws. Tug gently on the wires to verify connections.



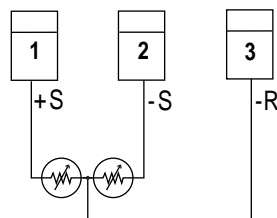
Main ac Power Connections

Connecting the Sensor Input

1. Locate the TB2 (TB3 on Version #1) connector on the rear of the unit.
2. Connect sensors, referring to the appropriate diagram below and tighten down lockdown screws.
3. Tug gently on the wires to verify the connections.
4. Replace the panel at the back of the unit.



2-Wire Input (400 Series)



3-Wire Input (700 Series)

Hook up Alarm 1 (Setpoint) (refer to TB1 Main ac Power Connection Drawing)

1. Connect a jumper from ac Line (Terminal 7) to Relay 1 Common (Terminal 3).
2. Connect Relay 1 Normally Open (Terminal 1) to External Alarm ac Line.
3. Connect External Alarm to ac Neutral (Terminal 8).

Hook up Alarm 2 (Setpoint) (refer to TB1 Main ac Power Connection Drawing)

1. Connect a jumper from ac Line (Terminal 7) to Relay 2 Common (Terminal 6).
2. Connect Relay 2 Normally Open (Terminal 4) to External Alarm ac Line.
3. Connect External Alarm to ac Neutral (Terminal 8).

Turn on the Unit

1. Apply power to the unit. The unit initializes, flashing "THERMISTOR". Then the temperature should appear.
2. Verify that a temperature is displayed. If not:
 - Remove ac power
 - Verify the TB1 power connections
 - Check your power source
 - Apply power again

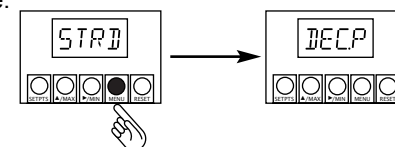
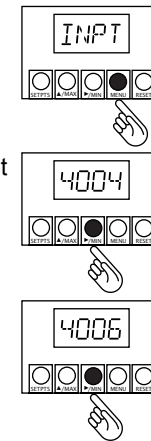
Configure the Unit

To configure the unit, use the buttons on the controller's front panel.

To:	Take This Action
Display the Configuration Menu.	Press the MENU button. The first function on the menu, "INPT", displays.
Select the submenu function.	<ol style="list-style-type: none"> 1. Press MENU until the function you want is shown. 2. Press ▶/MIN.
Select a value for that submenu function.	<ol style="list-style-type: none"> 1. Press ▲/MAX to display the option you want. 2. Press MENU to select it. "STRD" quickly flashes, indicating that the selection has been stored in memory. Then the next menu function displays.
Go back to the previous menu function.	Press RESET once.
Exit the Configuration Menu.	<ul style="list-style-type: none"> • Press RESET twice. The unit reinitializes (displays "RST", then "THERMISTOR"). When the temperature displays, the meter is back in Run Mode. • Optionally, you can press MENU to move through all the menu functions until the meter reinitializes.

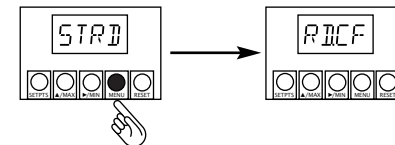
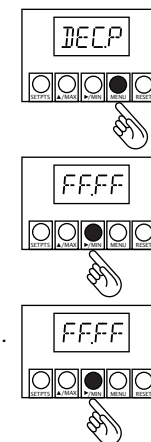
To Change the Input Type:

1. Press **MENU** until the display shows "INPT":
2. Press **▶/MIN** to show current input type:
3. Press **▲/MAX** to select the setting. Choices are: 4004, 4005, 4006, 4007, 4008, 4017, 4018 and 700.
4. Press **MENU** to store the value.
5. Press **RESET** twice to display the current temperature.



To Change the Decimal Point:

1. Press **MENU** until the display shows "DEC.P":
2. Press **▶/MIN** to show the current decimal point location:
3. Press **▲/MAX** to select the setting. Choices are: "FFF.F", "FFFF." or "FF.FF".
4. Press **MENU** to store the value.
5. Press **RESET** twice to display the current temperature.



Warranty/Disclaimer

NEWPORT Electronics, Inc. warrants this unit to be free of defects in materials and workmanship for a period of **one (1) year** from the date of purchase. In addition to NEWPORT's standard warranty period, NEWPORT Electronics will extend the warranty period for **one (1) additional year** if the warranty card enclosed with each instrument is returned to NEWPORT.

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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The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR WARRANTY RETURNS, please have the following information available BEFORE contacting NEWPORT:

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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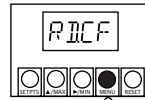
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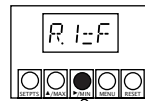
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To Select the Temperature Unit (Fahrenheit or Celsius):

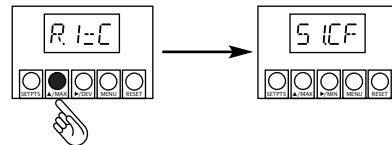
1. Press **MENU** until the display shows "RD.CF".



2. Press **►/MIN** to display the current temperature unit.

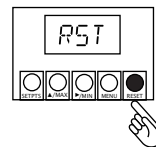


3. Press **▲/MAX** to select between "°F" and "°C".
4. Press **MENU** to store the value.
5. Press **RESET** twice to display the current temperature.



Begin Operation

Reinitialize the unit (press **RESET** twice or press **MENU** until "RST" flashes on the display).

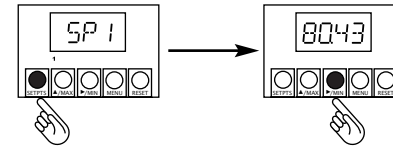


When the temperature appears, the unit is up and running.

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Changing Setpoint Values (for Dual Relay):

1. While in RUN Mode, press **SETPTS**. The unit displays Setpoint 1:

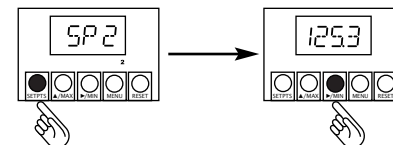


You can change Setpoint 1 or press **SETPTS** again to show the current value for Setpoint 2.

2. To change the Setpoint 1 value:

- Press **►/MIN** until the digit(s) you want to change flashes on the display.
- Press **▲/MAX** to change the value.
- Press **SETPTS** to store the value shown. The current value for Setpoint 2 is shown.

3. When Setpoint 2 appears, you can change it using the procedure above or press **SETPTS** to return to RUN Mode.



4. Repeat steps 1 through 3 to enter the next setpoint.

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



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.

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