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
• Û 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

Connect the Sensor Input
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 1 (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).

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 “FFFF”.
4. Press MENU to store the value.
5. Press RESET twice to display the current temperature.

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)

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
3. Press MENU twice to display the current temperature.
4. Press MENU to store the value.
5. Press RESET twice to display the current temperature.

Display the Configuration Menu.
1. Press MENU until the function you want is shown.
2. Press ▼/MIN.
3. Press ▼/MAX to display the option you want.
4. 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.
• Press RESET twice. The unit reinitializes (displays “INSTRT”, 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.

Configure the Unit
To configure the unit, use the buttons on the controller’s front panel.

Before You Begin
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
NEWPORT Electronic products offer a warranty as set forth in the Warranty/Disclaimer. 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, the unit is found to be defective it will be repaired or replaced, at NEWPORT’s option, and returned to the owner at no cost, except for return shipping charges. If the unit is found not to be defective, or is determined to be returned for reasons other than any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, unauthorized modification, this WARRANTY is VOID if the unit shows evidence of being 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 beyond the limits of the product. Some products are not warranted, including but not limited to contact points, fuses, and fuses. NEWPORT is pleased to offer suggestions on the use of the various products. However, NEWPORT 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 its recommendations or information. NEWPORT assumes no responsibility for products manufactured by others, which may be supplied new and/or reconditioned. Replacement parts for any NEWPORT product, either new or reconditioned, may only be purchased from NEWPORT or authorized NEWPORT distributors. These products are not designed for use in, and should not be used for, patient connected applications. The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

Warranty/Disclaimer

NEWPORT Electronic products offer a warranty as set forth in the Warranty/Disclaimer. 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, the unit is found to be defective it will be repaired or replaced, at NEWPORT’s option, and returned to the owner at no cost, except for return shipping charges. If the unit is found not to be defective, or is determined to be returned for reasons other than any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, unauthorized modification, this WARRANTY is VOID if the unit shows evidence of being 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 beyond the limits of the product. Some products are not warranted, including but not limited to contact points, fuses, and fuses. NEWPORT is pleased to offer suggestions on the use of the various products. However, NEWPORT 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 its recommendations or information. NEWPORT assumes no responsibility for products manufactured by others, which may be supplied new and/or reconditioned. Replacement parts for any NEWPORT product, either new or reconditioned, may only be purchased from NEWPORT or authorized NEWPORT distributors. These products are not designed for use in, and should not be used for, patient connected applications. The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

Warranty/Disclaimer

NEWPORT Electronic products offer a warranty as set forth in the Warranty/Disclaimer. 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, the unit is found to be defective it will be repaired or replaced, at NEWPORT’s option, and returned to the owner at no cost, except for return shipping charges. If the unit is found not to be defective, or is determined to be returned for reasons other than any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, unauthorized modification, this WARRANTY is VOID if the unit shows evidence of being 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 beyond the limits of the product. Some products are not warranted, including but not limited to contact points, fuses, and fuses. NEWPORT is pleased to offer suggestions on the use of the various products. However, NEWPORT 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 its recommendations or information. NEWPORT assumes no responsibility for products manufactured by others, which may be supplied new and/or reconditioned. Replacement parts for any NEWPORT product, either new or reconditioned, may only be purchased from NEWPORT or authorized NEWPORT distributors. These products are not designed for use in, and should not be used for, patient connected applications. The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

To Select the Temperature Unit (Fahrenheit or Celsius):

1. Press MENU until the display shows “RD.CP.”

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.

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.

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