START HERE

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 the RTD
- Set basic options for operation

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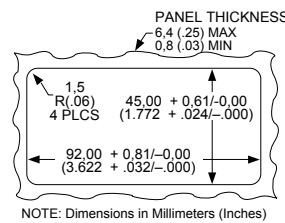
Before You Begin

In addition to the meter and the related parts, you will need the following items to set up your meter:
- ac power, as listed on meter's ID/Power Label
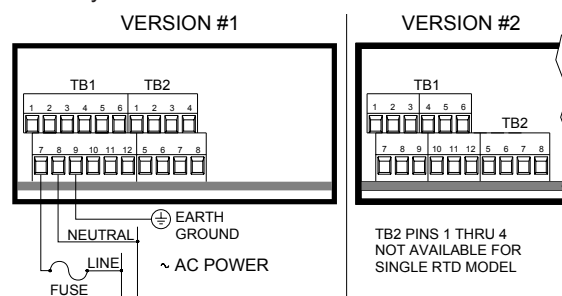- RTD
- ⅛" flat blade screwdriver

Mount the Meter

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

PANEL THICKNESS
6,4 (.25) MAX
0,8 (.03) MIN

1,5
R(.06)
4 PLCS
45,00 + 0,61/-0,00
(1.772 + .024/-.000)

92,00 + 0,81/-0,00
(3.622 + .032/-.000)

NOTE: Dimensions in Millimeters (Inches)

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 meter.
2. Locate the TB1 connector.
3. Insert the correct wire in each terminal and tighten the lockdown screws. Tug gently on the wires to verify connections.
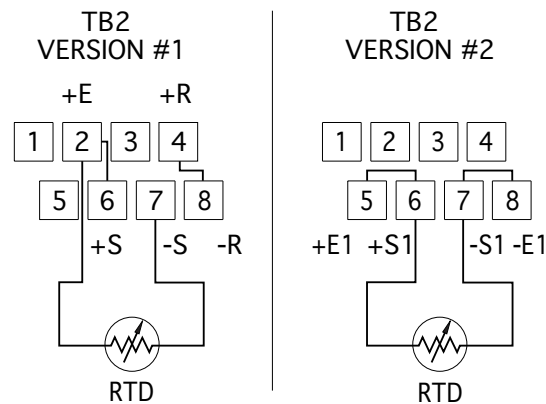
VERSION #1

VERSION #2

TB1   TB2

TB1

TB2

EARTH GROUND

NEUTRAL

LINE

~ AC POWER

FUSE

TB2 PINS 1 THRU 4 NOT AVAILABLE FOR SINGLE RTD MODEL
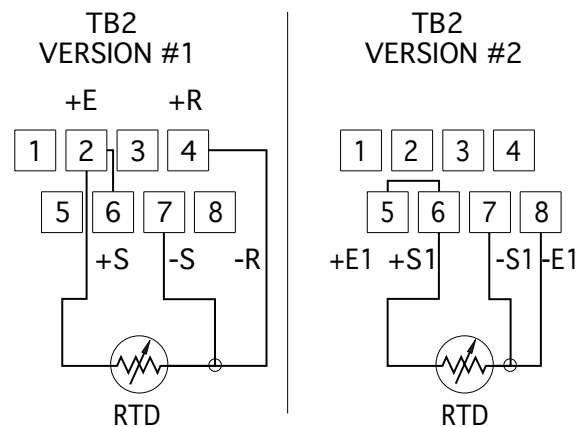
Main ac Power Connections

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Connecting the RTD

1. Locate the TB2 connector on the rear of the meter.
2. Attach the RTD wires, referring to the appropriate diagram below and tighten down lockdown screws.
3. Tug gently on the wires to verify the connections.
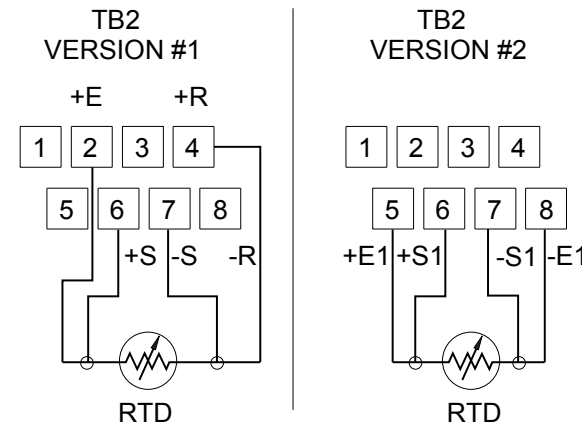4. Replace the panel at the back of the meter.

TB2
VERSION #1

+E   +R

| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |

+S -S -R

RTD

TB2
VERSION #2

| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |

+E1 +S1   -S1 -E1

RTD

2-Wire RTD Input Connection

TB2
VERSION #1

+E   +R

| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |

+S -S -R

RTD

TB2
VERSION #2

| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |

+E1 +S1   -S1 -E1

RTD

3-Wire RTD Input Connection

3

TB2
VERSION #1

+E   +R

| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |

+S -S -R

RTD

TB2
VERSION #2

| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |

+E1 +S1   -S1 -E1

RTD

4-Wire RTD Input Connection

Turn on the Meter

1. Apply ac power to the meter. The meter initializes, flashing RST then RTD on the front panel. 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 ac power again

Configure the Meter

To configure the meter, use the buttons on the front panel.

To:	Take This Action
Display the Configuration Menu.	Press the **MENU** button. The first function on the menu, INPT, displays.
Select the sub-menu (a function you want to perform).	1. Press **MENU** until the function you want is shown. 2. Press ▶/**DEV**. The information you can change begins to flash.

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To:	Take This Action
Select a value for that submenu function.	1. Press ▶/**MAX**. to display the option you want. 2. Press **MENU** to select it. The message **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 meter Configuration Menu.	• Press **RESET** twice. The reinitializes (displays **RST**, then **RTD**). 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 Set the RTD Type:

1. Press **MENU** until the meter displays:

INPT

2. Press ▶/**DEV**. The meter displays:

RTD2

3. Press ▲/**MAX** until the **RTD** for your installation is shown.
   - RTD.2 is for a 2-wire RTD
   - RTD.3 is for a 3-wire RTD
   - RTD.4 is for a 4-wire RTD

RTD3

4. Press **MENU** to select the RTD shown. The meter displays:
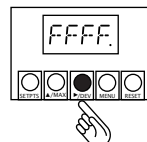
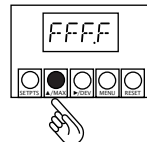STRD → DECP

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To Set the Decimal Point Position:

1. If it's not already shown, press **MENU** until the meter shows:
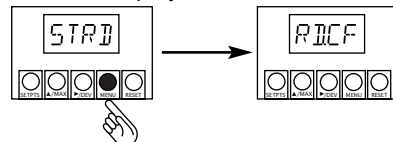
`DECP`
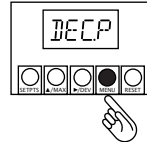
2. Press ▶/**DEV.** The meter displays:

`FFFF.`

3. Press ▲/**MAX** to move the decimal point to the desired location. Choices are: **FFFF**. or **FFF.F**.
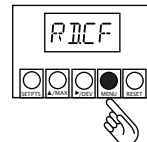
`FFF.F`

4. Press **MENU** to select the decimal point position shown. The meter displays:
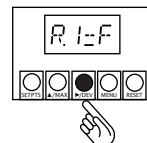
`STRD` → `RDCF`

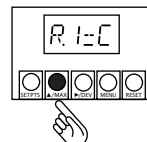## To Select the Temperature Unit (Fahrenheit or Celsius):

1. If it's not already shown, press **MENU** until the meter shows:

`RDCF`

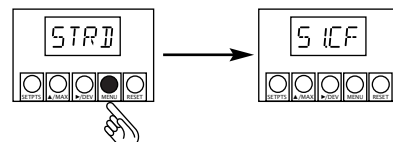2. Press ▶/**DEV.** The meter displays:

`R.1:F`

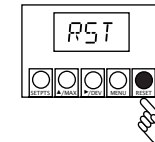3. Press ▲/**MAX** to display the setting you want. Choices are **F** and **C**.

`R.1:C`

4. Press **MENU** to select the temperature meter shown. The meter displays:
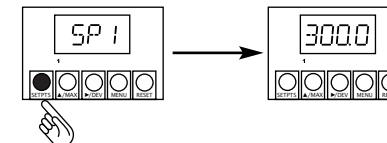
`STRD` → `S1CF`

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Begin Operation

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

`RST`

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

Changing Setpoint Values:

1. While in RUN mode, press **SETPTS**. The unit displays setpoint 1:

`SP 1` → `300.0`

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 ▶/**DEV** 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:

`SP 2` → `600.0`
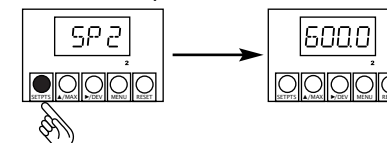
3. When setpoint 2 appears, you can change it using the procedure above or press **SETPTS** to return to RUN mode.

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 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.

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RoHS 2 Compliant

CN1000-RTD
TEMPERATURE CONTROLLER WITH TIME PROPORTIONAL CONTROL

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