


Using This Quick Start Manual

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

- Connect ac power
- Connect the RTD
- Set basic options for operation

Features with  are for the "B" version which has three-color programmable "Big" LED display - All segment characters shown are for the "B" version.

IMPORTANT: 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
- 1/8" flat blade screwdriver

Safety Consideration

Caution This device is marked with the international Caution 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:

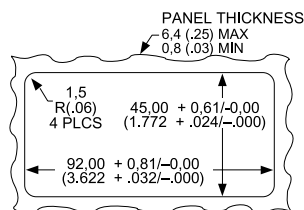
- Do not exceed voltage rating on the label located on the top of the instrument housing.
- Always disconnect power before changing signal and power connections.
- Do not use this instrument on a work bench without its case for safety reasons.
- Do not operate this instrument in flammable or explosive 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.

Mount the Unit

1. Cut a panel opening using the dimensions shown to the right.
2. Position the unit in the opening, making sure the front bezel gasket is flush with the panel.
3. Slide on retaining bracket to secure the meter against the panel.



NOTE: Dimensions in Millimeters (Inches)

Wiring

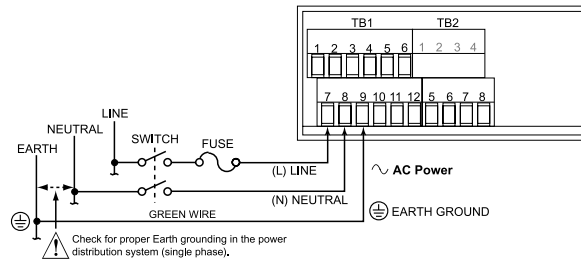
Warning: Do not connect AC power to your device until you have completed all input and output connections. This device must only be installed by a specially trained electrician with corresponding qualifications. Failure to follow all instructions and warnings may result in injury!

1. 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.
4. Tug gently on the wires to verify the connections.

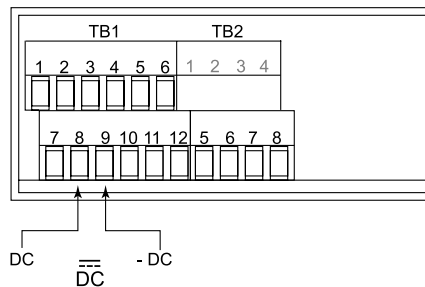
External Fuse Required:

Time-delay, UL 248-14 listed
175 mA (115 Vac line)
80 mA (230 Vac line)

Time-lag, IEC 127-3 recognized
125 mA (115 Vac line)
63 mA (230 Vac line)



AC Powered Unit Connections

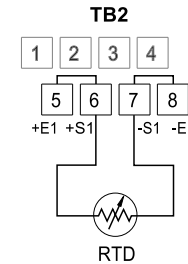


DC Powered Unit Connections

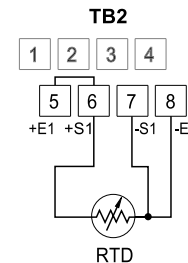
Caution In order to maintain the same degree of protection as the AC units, always use a Safety Agency Approval DC source with the same Overvoltage Category and Pollution Degree.

Connecting the RTD

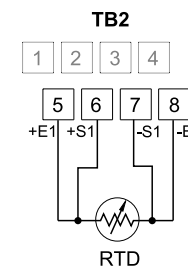
1. Locate the TB2 connector on the rear of the meter.
2. Attach the RTD wires, referring to the appropriate diagram below and tighten down lockdown screws.
3. Tug gently on the wires to verify the connections.
4. Replace the panel at the back of the meter.



2-Wire RTD Input Connection



3-Wire RTD Input Connection



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 sub-menu function you want is shown. 2. Press ▶/DEV .
Select a value the option you want. submenu.	The information you can change begins to flash. 1. Press ▲/MAX . to display for that submenu. 2. Press MENU to select it.
Go back to the previous menu function.	Press RESET once.
Exit the meter Configuration Menu.	<ul style="list-style-type: none"> • Press RESET twice. This 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.

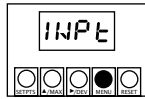
MENU	SUBMENU	▶/DEV	DESCRIPTION
INPT	Red.2 , Red.3* , Red.4		Input Type
DEC.P	FFFF* , FFFF		Decimal Point
Rd.CF	R.1=C , R.1=F*		Reading Configuration
COLR	GRN , RED , RRBR		Display Color
S1.CF	S.1=A* , S.1=b S.2=U* , S.2=L		Setpoint 1 Configuration
S2.CF	S.1=A* , S.1=b S.2=U* , S.2=L		Setpoint 2 Configuration
S1.db	0003*		Setpoint 1, Deadband
S2.db	0003*		Setpoint 2, Deadband
OUT.CF	0.1=E* , 0.1=d 0.2=0* , 0.2=V 0.3=A* , 0.3=P 0.4=d , 0.4=R 0.5=A , 0.5=M		Analog Output Configuration
P.b.Wd	0000 shown if 0.3 = P		Proportional Band
M.RSt	0000 shown if 0.3 = P		Manual Reset
OUT.S.O	Rd.1 , OUT.1 , Rd.2 , OUT.2		Output Scale & Offset
OUT.OFF	0000		RTD Temperature Offset
LR.CF	R5=E* , R5=d SP=E* , SP=d L3=0* , L3=1		Lockout Configuration
BRTE	B.brE , L.brE , H.brE		Display Brightness

* Factory Default Settings.

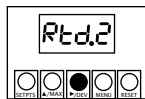
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To Set the RTD Type:

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



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



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

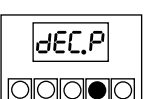


4. Press **MENU** to select the RTD shown. The meter displays:

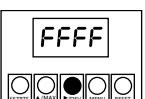


To Set the Decimal Point Position:

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

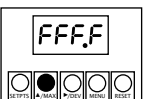


2. Press **▶/DEV.** The meter displays:

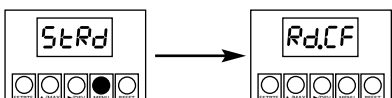


3. Press **▲/MAX** to move the decimal point to the desired location.

Choices are: **FFFF** or **FFF.F**



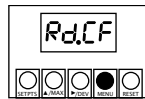
4. Press **MENU** to select the decimal point position shown. The meter displays:



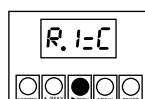
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To Select the Temperature Unit (Fahrenheit or Celsius):

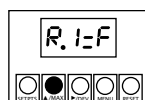
1. If it's not already shown, press **MENU** until the meter shows:



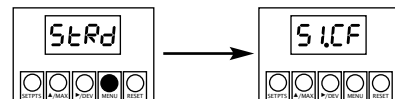
2. Press **▶/DEV.** The meter displays:



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

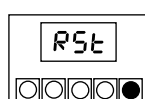


4. Press **MENU** to select the temperature meter shown. The meter displays:



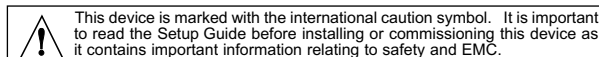
Begin Operation

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



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

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



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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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.

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