

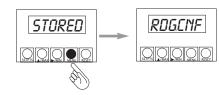
4. Press ►/MIN to display RTD types:

3PT392

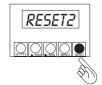
5. Press ▲/MAX until the meter displays the RTD you want. Your choices are:

2PT392	2-Wire 100 ohm platinum NIST RTD
3PT392	3-Wire 100 ohm platinum NIST RTD
4PT392	4-Wire 100 ohm platinum NIST RTD
2PT385	2-Wire 100 ohm platinum DIN RTD
3PT385	3-Wire 100 ohm platinum DIN RTD
4PT385	4-Wire 100 ohm platinum DIN RTD
LINEAR	3/4-Wire any linear RTD, e.g., copper

6. Press MENU. The meter displays:



7. Press RESET twice. The meter displays:



To Set Temperature Units:

1. Press MENU until the meter displays:



RD65 =0

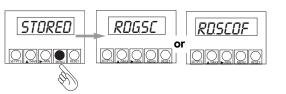
and then shows the

current temperature.

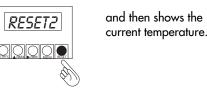
- 2. Press ►/MIN until the meter displays:
- 3. Press \blacktriangle /MAX to change $00 \bullet 00$ the value. Your choices are: $0 = {}^{\circ}C, 1 = {}^{\circ}F, 2 = {}^{\circ}K$



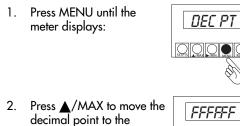
4. Press MENU to enter the value. The meter displays:

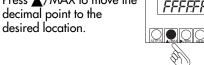


5. Press RESET twice. The meter displays:

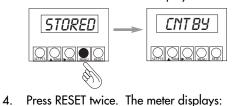


To Set Decimal Point Position:





3. Press MENU. The meter displays:





The unit is now up and running.

WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **61 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal five (5) year product warranty to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA'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 having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

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RETURN REQUESTS/INQUIRIES Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence. FOR **NON-WARRANTY** REPAIRS, FOR WARRANTY RETURNS, please have the following consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA: information available BEFORE 1. Purchase Order number under contacting OMEGA: which the product was 1. Purchase Order number to cover

PURCHASED. the COST of the repair or 2. Model and serial number of calibration. the product under warranty, and 2. Model and serial number of the Repair instructions and/or product, and 3. Repair instructions and/or specific specific problems relative to problems relative to the product. the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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For complete product manual:

www.omega.com/manuals/manualpdf/M1296.pdf





DP41-RTD **High Performance RTD Indicator**



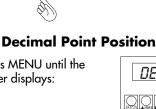
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Using This Quick Start Manual

Use this Quick Start Manual to get your High Performance Strain Gage Indicator up and running right out of the box. These instructions use the factory default settings of 100mV unipolar input and 10 Vdc sensor excitation. If you have voltage or current input, refer to the main manual.



The latest complete Communication and Operational Manual as well as free Software are available at www.omega.com

To start your unit:

- Connect ac power
- Connect the RTD
- Wire the sensor
- Configure the meter, using the front panel buttons and the configuration menus
- set the RTD type
- set degrees to °C or °F
- set decimal point position

Your unit should have the following parts:

- Panel mounting gaskets
- ac Power Connector (orange P1), two Input Connectors (P3 and P9), and rear protective cover (mounted). For detailed instructions, refer to the appropriate

section in the Operator's Manual.

Before You Begin

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

- ac power as listed on meter's product/ID label
- External sensor (e.g.; load cell)
- 1/8" Phillips head screwdriver
- 1/8" flat blade screwdriver

Safety Consideration

This device is marked with the international Caution symbol.

The instrument is a device protected in accordance with UL 61010:2010 Electrical Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory. The device has no power-on switch. Installations must include a switch or circuit breaker that is compliant to IEC 947-1 and 947-3. It must be suitably located to be easily reached and marked as the disconnecting devise for the equipment. Use copper conductors only, minimum 20 AWG, UL Rated, for power connection. Insulation must be rated for at least 85C and 600V.

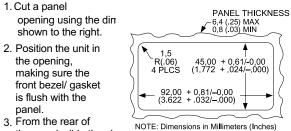
SAFETY:

- 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

panel



- the panel, slide the sle the panel surface.
- 4. The panel should now be sandwiched between the bezelbacked gasket in front and the sleeve in back.
- 5. Replace the thumbnuts that secure the sleeve tabs to the case

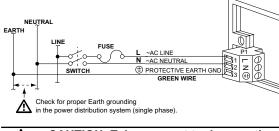
Connect ac Power

- 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 rear protective cover and set it aside. The cover is secured with a Phillips-head screw.
- 2. Locate connector P1 on the bottom-left-rear of the unit. The connector has three screw-down terminals (see below).

EXTERNAL FUSE WIRED

115 Vac IEC127-2/III, 125mA, 250V (Time-Lag) or UL Slow-Blow, 125mA, 250V 230 Vac IEC127-2/III, 63mA, 250V (Time-Lag) or UL Slow-Blow, 63mA, 250V

3. Insert the correct wire in each terminal and tighten the lockdown screw. Tug gently on each wire to verify the connection. Use copper conductors only, minimum 20 AWG

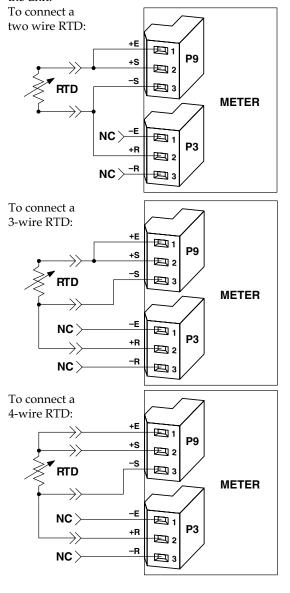


CAUTION: Take care not to damage the green Cold Junction Compensation Board and its connectors.

- 4. Replace the rear cover. Verify proper seating of the connectors on the green Cold Junction Compensation Board.
- 5. Thread the power wires through the slots on the side of the cover. Replace the rear cover retaining screw.

Connect the RTD

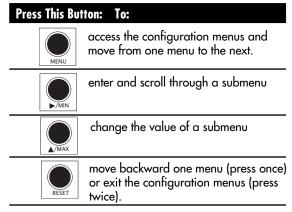
The two RTD connectors are on the right-side rear of the unit.



- 1. Attach the wires and tighten the retaining screws. Tug gently on each wire to verify the connection.
- 2. Plug the unit into a properly grounded 115V power supply. The front panel of the unit displays RESET2, followed by the temperature. If it does not:
 - a. Unplug the unit.
 - Verify your P1 power connections. b.
 - Check your power source. c.
 - d. Plug the unit in again.

Configure the Unit

Press the front panel buttons:





1. Press MENU until the meter displays:



INPUT

2. Press ▲/MAX until the meter flashes:



3. Press MENU until the meter displays:

