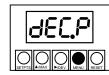
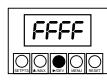


To Set the Decimal Point

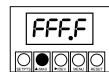
 If it's not already shown, press MENU until the unit displays dEC.P



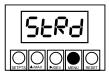
Press ►/DEV to show the current decimal point location.

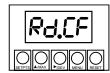


Press A/MAX to move the decimal point to the desired location. The choices are FFFF or FFFF



Press **MENU** to store the value.

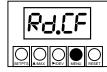




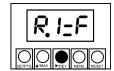
Press **RESET** twice to display the current temperature.

To Select Temperature Unit (Fahrenheit or Celsius):

1. Press MENU until the display shows Rd.EF

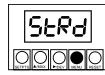


Press ►/DEV to display the current temperature unit.

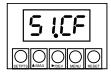


Press ▲/MAX to select between °F and °C.





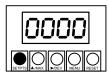
Press MENU to store the value.



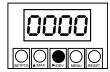
5. Press RESET twice to display the current temperature.

To Enter Setpoints:

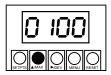
1. Press SETPTS to display the current setpoint. The leftmost digit will flash.



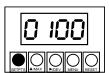
Press ►/DEV to select the digit you want to change.



Press A/MAX to increase the value of the flashing digit.



Press SETPTS to store the setpoint.



Repeat steps 1 through 4 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 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. ÓMEGA will add the CE mark to every appropriate device upon certification.

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WARRANTY/DISCLAIMER

OMEGA ENGINEERING, 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 OMEGA's standard warranty period. OMEGA Engineering will extend the warranty period for four (4) additional years if the warranty card enclosed with each instrument is returned to OMEGA.

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 which wear are not warranted, including but 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.

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

have the following information available BEFORE contacting OMEGA:

- 1. P.O. number under which the
- product was PURCHASED, Model and serial number of the product under warranty, and
- 3. Repair instructions and/or specific problems relative to the product.

FOR WARRANTY RETURNS, please | FOR NON-WARRANTY REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

- 1. P.O. number to cover the COST of the repair.
- Model and serial number of product. and
- 3. Repair instructions and/or specific problems relative to 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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MQS3732/1205



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DP25-TC and DP25B-TC **PROGRAMMABLE DIGITAL** THERMOCOUPLE CONTROLLER



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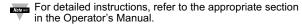
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Use this Quick Start Manual with your controller to make changes to the thermocouple type, decimal point, units, and to change the setpoints.

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



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
- Thermocouple
- 1/8" flat blade screwdriver

Safety Consideration



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:

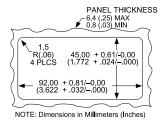
- Do not exceed voltage rating on the label located on the top of the instrument housing.
- Always disconnect power before changing signal and power connections.
- Do not use this instrument on a work bench without its case for safety reasons.
- · Do not operate this instrument in flammable or explosive 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 is flush with the
- 3. Install retaining clip on the meter and tighten against the panel.



Wiring



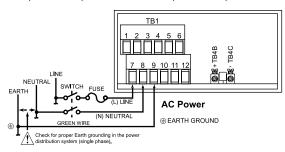
Warning: Do not connect AC power to your device until you have completed all input and output connections. This device must only be installed by a specially trained electrician with corresponding qualifications. Failure to follow all instructions and warnings may result in injury!

- 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.

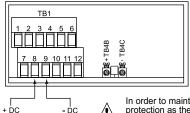
External Fuse Required:

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

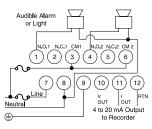


In order to maintain the same degree of protection as the AC units, always use a Safety Agency Approval DC source with the same Overvoltage Category and Pollution Degree.

DC Powered Unit Connections

Wiring the Controller

DC POWER



Typical Wiring of TB1

Thermocouple Wire Connection

- 1. Connect positive (+) lead of thermocouple.
- 2. Connect negative (-) lead of thermocouple.

Note: The negative lead is red.

Example hook up for AC Load

Alarm 1 (Setpoint) Hook-up

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

Alarm 2 (Setpoint) Hook up

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

Analog Output Wiring for 4 - 20 mA Current

- Connect Positive Lead to Terminal 11
- Connect Negative Lead to Terminal 12.

For 0 -10 Voltage

- Connect Positive Lead to Terminal 10.
- Connect Negative Lead to Terminal 12.

Using the Configuration Menu

To configure the meter, you use the buttons on the front panel.	
To:	Take This Action:
Display the	Press the MENU button. The first function
Configuration Menu	on the menu, THPE, displays.
Select a submenu function	Press MENU until the function you want is shown.
	2. Press ▶/DEV.
	The information you can change flashes.
Select a value for that submenu	 Press ▲/MAX to display the option you want.
function	2. Press MENU to store it.
	5 t Rd quickly flashes, indicating that the selection has been stored in memory. Then the next menu function displays.
Go back to previous menu function	Press RESET once.
Exit the	Press RESET twice. The unit displays
Configuration Menu	RSE as it reinitializes. When a numeric value displays, the unit is in run mode.
	(Optionally, you can press MENU to move through all the menu functions

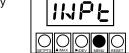
until the unit reinitializes.)

SUBMENU ►/DEV DESCRIPTION INPE J.E.C. K.E.E.*. d J.EC. E.EC Input 4EC.P FFFF* FFF.F **Decimal Point** Rd.CF R. I = C R. I = F Reading Configuration COLR CRN REd. AMPE Display Color 5 1.CF S. I-8* S. I-6 Setpoint 1 Configuration 5.2 : U* 5.2 : L 52.CF S. I = A* S. I = 6 Setpoint 2 Configuration 5.2 : U* 5.2 : L 5 1.db 0003 Setpoint 1. Deadband 46.52 0003 Setpoint 2. Deadband 0 E . C F 0.1=6 * 0.1=8 **Analog Output** 0.210 * 0.210 Configuration 0.3 - A * 0.3 - P 0.4:8 0.4 = R 0.5 : F 0.5 : H P.648 **0000** shown if 0.3 = P Proportional Band M.RSE **9000** shown if 0.3 = PManual Reset 0 E.S.O Rd 1 OUE I RA S. OUES Output Scale & Offset 0000 C J.0F Cold Junction Offset L K.C F RS=E*, RS=d **Lockout Configuration** SPEE* SPEd LB=0*, LB=1 NEW BRIE

Using the Menus

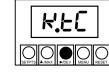
To Change the Thermocouple Type: Press MENU until the display shows INPE

M.brt L.brt H.brt

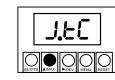


Display Brightness

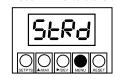
Press >/DEV to show current thermocouple type:

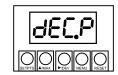


Press A/MAX to select the setting from J, K, T or DJ.TC.



Press MENU to store the value





Press RESET twice to display the current temperature.

^{*} Factory Default Settings

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