

Step 10. Enter to the Thermocouple Input Submenu
Press **⏏** to store Thermocouple Input. The display will stop flashing and show the top menu for Thermocouple types. If you press **⏏** controller will step to next menu item (Skip to Step 14).

Step 11. Enter to the Thermocouple Type Input Submenu
Press **⏏** to display flashing, previously selected Thermocouple type.

Step 12. Scroll through available selection of TC types
Press **⏏** to sequence thru flashing Thermocouple types, (select k -for type "K" CHROMEGA®/ALOMEGA®)

J K T E N DIN J R S B C - TC types
J k t E N dNJ R S b C - Display

Step 13. Store TC type
After you have selected the Thermocouple type press **⏏** to store your selection, the instrument automatically advances to the next menu item.

Step 14. Enter to Reading Configuration Menu
The display shows **RdD** Reading Configuration, which is the top menu for 4 submenus: Decimal Point, Degree Units, Filter Constant and Input/Reading Submenus.

Step 15. Enter to Decimal Point Submenu
Press **⏏** to show **DEC** Decimal Point.

Step 16. Display the Decimal Point position
Press **⏏** again to display the flashing Decimal Point position.

Step 17. Select the Decimal Point position
Press **⏏** to select **FFFF** Decimal Point position.

Step 18. Store selected Decimal Point position
By pressing **⏏** momentarily the Decimal Point position will be stored and the instrument will go to the next menu item.

Step 19. Enter to Temperature Unit Submenu
Display shows **TEMP** Temperature Unit.

Step 20. Display available Temperature Units
Press **⏏** to display the flashing Degree **F** or **C**.

Step 21. Scroll through Temperature Units selection
Press **⏏** to select **F** Degree.

Step 22. Store the Temperature Unit
Press **⏏** to display momentarily that the Degree Unit has been stored and the instrument will go automatically to the next menu item.

Step 23. Enter the Filter Constant Submenu
Display shows **FLER** Filter Constant Submenu.

Step 24. Display the Filter Constant Value Submenu
Press **⏏** to display the flashing, previously selected Filter Constant.

Step 25. Scroll through available Filter Constants
Press **⏏** to sequence thru Filter Constants **0001**, **0002**, **0004**, **0008**, **0016**, **0032**, **0064** and **0128**.

Step 26. Store the Filter Constant
Press **⏏** momentarily to store **0004** Filter Constant and the instrument will automatically go to the next menu item.

Step 27. Enter Alarm 1 Menu
The display will show **ALR1** the top menu for Alarm 1. In the following steps we are going to enable Alarm 1, Deviation, Unlatch, Normally Open, Active Above, Enable at power on and +2°F High Alarm i.e. Process Value > Setpoint 1 Value +2°F will activate Alarm 1.

Step 28. Enter Alarm 1 Enable/Disable Submenu
Press **⏏** to display flashing **ASBL** / **ENBL**.

Step 29. Enable Alarm 1 Submenu
If flashing **ENBL** is displayed, press **⏏**, if **ASBL** is displayed, press **⏏** until **ENBL** is displayed, then press **⏏** to store and go to the next menu item.

Step 30. Select the Deviation Control Type Submenu
Press **⏏**. If flashing **DEV** Deviation is displayed press **⏏**, otherwise press **⏏** until flashing **DEV** is shown. Now press **⏏** to store and go to next menu item.

Step 31. Select the Latched Type Submenu
Press **⏏**. If flashing **UNLE** Unlatched is displayed press **⏏**, otherwise press **⏏** until **UNLE** is displayed. Press **⏏** to store and advance to next menu item.

Step 32. Select the Normally Open Type of Contact Closure Submenu
Press **⏏**. If flashing **NO** Normally Open is displayed, press **⏏**, otherwise press **⏏** until **NO** is displayed. Press **⏏** to store and advance to next menu item.

Step 33. Select the Above Type of Active Submenu
Press **⏏**. If flashing **ABOV** Above is displayed, press **⏏**, otherwise press **⏏** until **ABOV** is displayed. Press **⏏** to store and advance to next menu item.

Step 34. Enable Alarm 1 at Power On (A.P.ON)
Press **⏏**. If flashing **ENBL** is displayed, press **⏏**, otherwise press **⏏** until **ENBL** is displayed. Press **⏏** to store and advance to next menu item.

Step 35. Enter Alarm 1 High Submenu
Press **⏏** twice to skip **ALRL** Alarm 1 Low value. **ALRL** is for below & **ALRH** for above.

Step 36. Set the Alarm 1 High value (ALRH)
Press **⏏**. Press **⏏** or **⏏** until value to set the display to **002.0**. Press **⏏** to save.

Step 37. Enter the Alarm 2 Menu
The display will show **ALR2** the top menu for Alarm 2. Repeat steps from 28 to 36 to set for Alarm 2 the same conditions as for Alarm 1.

Step 38. Configuration of Display Color Selection
Press **⏏** until the **COLR** Display Color Selection Menu appears on the Display. Configure **COLR** as **WCLR** / **GRN** (green), **ICLR** / **RED** (red), **PCLR** / **AMBR** (amber). Please refer to the operator's manual if needed.

Step 39. Run a Test
Press **⏏** until reset the controller and return to **RUN** Mode to display **075.0** (Ambient Temperature). Now you are ready to observe temperature as it rises 10°F higher than displayed. Touch the tip of the Thermocouple to raise the temperature above the Alarm 2 High value **082.0**, and AL2 will turn on, and Display Color will change from Green to Amber. Continue touching the tip to raise the temperature above the Alarm 1 High value **087.0** and Display Color will change from Amber to Red.

SPECIFICATION

Accuracy:
±0.5°C temp;
0.03% rdg. process typical

Resolution:
1°/0.1°; 10 µV process

Temperature Stability:
0.04°C/°C RTD;
0.05°C/°C TC @ 25°C (77°F);
50 ppm/°C process

Display:
4-digits, 9-segments LED,
10.2 mm (0.40") with red, green and
amber programmable colors

Input Types:
Thermocouple, RTD, Analog Voltage
and Current

TC: (ITS90)
J, K, T, E, R, S, B, C, N, L

RTD: (ITS68)
100/500/1000 ohm Pt sensor
2-, 3-, or 4-wire; 0.00385 or 0.00392
curve

Voltage:
0 to 100 mV, 0 to 1 V, 0 to 10 Vdc

Current:
0 to 20 mA (4 to 20 mA)

Output 1':
Relay 250 Vac @ 3 A Resistive Load,
SSR, Pulse

Output 2':
Relay 250 Vac @ 3 A Resistive Load,
SSR, Pulse
† Only with -AL option

Options: Communication
RS-232 / RS-485 or

Excitation: 24 Vdc @ 25 mA
Not available for Low Power Option

Line Voltage/Power:
90 - 240 Vac ±10%, 50 - 400 Hz*,
or 110 - 375 Vdc, **4 W**
* No CE compliance above 60 Hz

Low Voltage Power Option:
12 - 36 Vdc, **3 W****

** Units can be powered safely with 24 Vac
but No Certification for CE/UL are claimed.

Dimensions:
25.4 H x 48 W x 126.3 D mm
(1.0 x 1.89 x 5")

Weight:
127 g (0.28 lb)

Approvals:
UL, C-UL, CE per EN50081-1,
EN50082-2, EN61010-1

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 the guide 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 CE mark to every appropriate device upon certification.

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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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iSeries

i/32 Temperature & Process Monitor/Alarm

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