

**Step 11. Enter to the Thermocouple Type Input Submenu**  
Press **2** to display flashing, previously selected Thermocouple type.

**Step 12. Scroll through available selection of TC types**  
Press **1** 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 dN J R S b C - Display

**Step 13. Store TC type**  
After you have selected the Thermocouple type press **2** 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 **2** to show **dE.C** Decimal Point.

**Step 16. Display the Decimal Point position**  
Press **2** again to display the flashing Decimal Point position.

**Step 17. Select the Decimal Point position**  
Press **1** to select **FFF.F** Decimal Point position.

**Step 18. Store selected Decimal Point position**  
By pressing **2** 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 **E.E.U.P** Temperature Unit.

**Step 20. Display available Temperature Units**  
Press **2** to display the flashing Degree **F** or **C**.

**Step 21. Scroll through Temperature Units selection**  
Press **1** to select **F** Degree.

**Step 22. Store the Temperature Unit**  
Press **2** 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 **2** to display the flashing, previously selected Filter Constant.

**Step 25. Scroll through available Filter Constants**  
Press **1** to sequence thru Filter Constants **0001**, **0002**, **0004**, **0008**, **0016**, **0032**, **0064** and **0128**.

**Step 26. Store the Filter Constant**  
Press **2** momentarily to store **0004** Filter Constant and the instrument will automatically go to the next menu item.

**Step 27. Enter Alarm 1 Menu**  
Press **2** until the **ALR1** Alarm 1 Menu appears on the Display. In the following steps we are going to Disable Latch, Active Above, Deadband 020.0, and above Setpoint 1 Value will activate Alarm 1.

**Step 28. Select Latch Type Submenu**  
Press **2** to display flashing **LSbL** / **ENbL**. If flashing **LSbL** is displayed, press **2**, if **ENbL** is displayed, press **1** until **LSbL** is displayed, then press **2** to store and go to the next menu item.

**Step 29. Select the Above Type of Active Submenu**  
Press **2**. If flashing **AbO.V** Above is displayed, press **2**, otherwise press **1** until **AbO.V** is displayed. Press **2** to store and advance to next menu item.

**Step 30. Select the Deadband Value Submenu**  
Press **2**. The display will show **020.0**, otherwise press **1** or **2**. Press **2** to store and advance to next menu item.

**Step 31. Enter the Alarm 2 Menu**  
The display will show **ALR2** the top menu for Alarm 2. Repeat steps from 29 and 30 to set for Alarm 2 the same conditions as for Alarm 1.

**Step 32. Configuration of Display Color Selection**  
Press **2** until the **CLR** Display Color Selection Menu appears on the Display. Configure **CLR** as **HCLR** / **GRN** (green), **LCLR** / **RED** (red), **PCLR** / **AMBR** (amber). Please refer to the operator's manual if needed.

**Note** For color change on Setpoints refer to Owners Manual Section 2.

**Step 33. Run a Test**  
Press **2** 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. Annunciator "1" is turning on and off displaying output 1.

## SPECIFICATION

<b>Accuracy:</b> ±0.5°C temp; 0.03% rdg. process typical	<b>Output 1<sup>1</sup>:</b> Relay 250 Vac @ 3 A Resistive Load, SSR, Pulse, Analog Voltage and Current
<b>Resolution:</b> 1°/0.1°; 10 µV process	<b>Output 2<sup>1</sup>:</b> Relay 250 Vac @ 3 A Resistive Load, SSR, Pulse
<b>Temperature Stability:</b> 0.04°C/°C RTD; 0.05°C/°C TC @ 25°C (77°F); 50 ppm/°C process	<sup>1</sup> Only for Alarms <b>Options: Communication</b> RS-232 / RS-485 or <b>Excitation:</b> 24 Vdc
<b>Display:</b> 4-digit, 7-segment LED, 57.2 mm (2.25") with red, green, and amber programmable colors for process variable, set point and temperature units.	<b>Power:</b> 100-240 Vac ±10%, 50-60 Hz, <b>22.5 W</b>
<b>Input Types:</b> Thermocouple, RTD, Analog Voltage and Current	<b>Dimensions:</b> 289 L x 137 W x 73 D mm (11.75" L x 5.375" W x 2.875" D)
<b>TC: (ITS 90)</b> J, K, T, E, R, S, B, C, N, L	<b>Panel Cutout:</b> 279.4 L x 116.8 W mm (11.00" L x 4.60" W)
<b>RTD: (ITS 68)</b> 100/500/1000 ohm Pt sensor 2-, 3-, or 4-wire; 0.00385 or 0.00392 curve	<b>Weight:</b> 1,360 g (3 lbs)
<b>Voltage:</b> 0 to 100 mV, 0 to 1 V, 0 to 10 Vdc	<b>Approvals:</b> per EN 61010-1:2001
<b>Current:</b> 0 to 20 mA (4 to 20 mA)	

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3. Repair instructions and/or specific problems relative to the product.

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

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**QUICK START**

**5 YEAR**  
WARRANTY

**iSeries**



**iLD24 Big Display  
Universal Temperature  
& Process  
Simplified Menu (-SM)**

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