

**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.F** 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 **FLTR** 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 **DSBL ENBL**.

**Step 29. Enable Alarm 1 Submenu**  
If flashing **ENBL** is displayed, press **↻**, if **DSBL** 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 **UNL** Unlatched is displayed press **↻**, otherwise press **▲** until **UNL** 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 **N.O.** Normally Open is displayed, press **↻**, otherwise press **▲** until **N.O.** is displayed. Press **↻** to store and advance to next menu item.

**Step 33. Select the Above Type of Active Submenu**  
Press **↻**. If flashing **ABO** Above is displayed, press **↻**, otherwise press **▲** until **ABO** 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 **ALR.L** Alarm 1 Low value. **ALR.L** is for below & **ALR.H** for above.

**Step 36. Set the Alarm 1 High value (ALR.H)**  
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 **CLR** Display Color Selection Menu appears on the Display. Configure **CLR** as **W.CLR** / **GRN** (green), **R.CLR** / **RED** (red), **A.CLR** / **AMBR** (amber). Please refer to the operator's manual if needed.

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

**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-digit, 7-segment LED, 101.6mm (4.00") with red, green, and amber programmable colors for process variable, set point and temperature units.

**Input Types:**  
Thermocouple, RTD, Analog Voltage and Current

**TC: (ITS 90)**  
J, K, T, E, R, S, B, C, N, L

**RTD: (ITS 68)**  
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)

**Options: Communication**  
RS-232 / RS-485

**Power:**  
100-240 Vac ±10%, 50-60 Hz, 22.5 W

**Dimensions:**  
480.0 L x 210.8 W x 95.4 D mm  
(18.11" x 8.31" x 3.76")

**Panel Cutout:**  
414.3 L x 179.4 W mm  
(16.31" L x 7.06" W)

**Weight:**  
2,495 g (5.5 lbs)

## WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) 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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FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
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:

1. Purchase Order number to cover the COST of the repair or calibration,
2. Model and serial number of the 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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QUICK START

5 YEAR  
WARRANTY

iSeries



iLD44-UTP Big Display  
Universal Temperature  
& Process Monitor

OMEGA™

omega.com info@omega.com

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Customer Service: 1-800-622-2378 (USA & Canada only)  
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Tel: (203) 359-1660 Fax: (203) 359-7700  
e-mail: info@omega.com

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