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 CHROMEL/ALUMEL OMEGA")
J K T E N DIN R S B C TC types
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 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 0000 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 0000 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 0000 Temperature Unit.
Step 20. Display available Temperature Units
Press \# to display the flashing Degree B.
Step 21. Scroll through Temperature Units selection
Press \# to select 0000 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 0000 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 Constant Submenu:
9000 8000 7000 6000 5000 4000 3000 2000 1000 0000
Step 26. Store the Filter Constant
Press \# momentarily to store 0000 Filter Constant and the instrument will automatically go to the next menu item.
Step 27. Enter Alarm 1 Menu
Press \# 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 \# to display flashing, 0000. If flashing 0000 is displayed, press \# until 0200 is displayed, then press \# to store and go to the next menu item.
Step 29. Select the Above Type of Active Submenu
Press \# if flashing 0000 Above is displayed, press \# otherwise press \# until 0200 is displayed. Press \# to store and advance to next menu item.
Step 30. Select the Deadband Value Submenu
Press \# The display will show 0000 otherwise press \# or 0. Press \# to store and advance to next menu item.
Step 31. Enter the Alarm 2 Menu
The display will show 0000 the top menu for Alarm 2. Repeat steps 29 and 30 to set for Alarm 2 the same conditions as for Alarm 1.
Step 32. Configuration of Display Color Selection
Press \# until the 0000 Display Color Selection menu appears on the Display. Configure 0200 or 0000 (green), 0000 or 0200 (red), 0000 (amber). Please refer to the operator's manual Section II.
For color change on Setpoints see owners Owners Manual Section II.
Step 33. Run a Test
Press \# until the controller and return to RUN Mode to display 0000 (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 0200 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 0100 and Display color will change from Amber to Red. Annunciator "1" is turning on and off displaying output 1.

SPECIFICATION

Accuracy:
±0.5°C @ 10°C
±0.5% rd, process typical
Resolution:
1°C/0.1°F, 10°F/0.1°F process
Temperature Range:
0.0°C/0.0°F to 200°C/400°F (77°F)
50 ppm/°C process
Display:
4-digit, 7-segment LED,
Accuracy:
J K T E N DIN J K R S B C - TC types
Display Color Selection Menu
Option: Communication

TRADEMARK NOTICE:
® are Trademarks of OMEGA ENGINEERING, INC.
® are Trademarks of OMEGA, Inc.
® are Trademarks of OMEGA, Inc.
® are Trademarks of OMEGA, Inc.
This Quick Start Reference provides information on setting up your instrument for basic operation. The latest complete Communication and Operational Manual as well as free Software and ActiveX Controls are available at www.omega.com or on the CD-ROM enclosed with your shipment.

SAFETY CONSIDERATION

This device is marked with the international Caution symbol.

The instrument is a panel mount device protected in accordance with EN 61010-1:2001, electrical safety requirements for electrical equipment for measurement, control and laboratory. 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 back 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.

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.

MOUNTING

Mounting Big Display Through Panel:
1. Using the panel cutout diagram shown, cut an opening in the panel.
2. Remove six screws at the back of Big Display to remove back cover.
3. Insert the unit into the opening from the front of the panel, so the gasket seals between the bezel and the front of the panel.
4. Align back cover to Big Display and reinstall screws.

Mounting Big Display on Bail:
1. Mark the location of mounting screws on the flat surface.
2. Be sure to leave enough room around the bail to allow for removal and rotation of the display.
3. The display can be rotated for the best viewing angle.

Disassembly Instruction:

Warning: Disconnect all ac power from the unit before proceeding.
1. Remove all wiring connections from the rear of the instrument, by unscrewing the power and input connectors.
2. Remove six screws at the back of the display and back cover.
3. Remove the Big Display from the panel.
4. To remove the Big Display from the bail, unscrew the two knobs at each end of the mounting brackets.

WIRING

Wire the instrument according to the Input and Output Wiring Connections described in your Operator’s Manual.

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 specialty trained electrician with corresponding qualifications. Failure to follow all instructions and warnings may result in injury.

Connect the main ac power connections as shown in the figure below.

Mounting Big Display Through Panel:

Connecting to Power Source:

Connect the main ac power connections as shown in the figure below.

AC POWER 100 ~ 240 Vac TB1

Connecting to Power Source:

Connect the main ac power connections as shown in the figure below.