Step 11. Enter to the Thermocouple Type Input Submenu
Press 4 to display flashing, previously selected Thermocouple type.

Step 12. Scroll through available selection of TC types
Press 4 to sequence thru flashing Thermocouple types, (select k, for type "K" CHROMEL/ALUMEL®)

Step 13. Store the TC type
After you have selected the Thermocouple type press 4 to store your selection, the instrument automatically advances to the next menu item.

Step 14. Enter to Reading Configuration Menu
The display shows Flashing 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 1 to show DEC Decimal Point.

Step 16. Display the Decimal Point position
Press 4 again to display the flashing Decimal Point position.

Step 17. Select the Decimal point position
Press 4 to select DEC Decimal point position.

Step 18. Store selected Decimal Position
By pressing 4 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 °C Temperature Unit.

Step 20. Display available Temperature Units
Press 4 to display the flashing Degree °F.

Step 21. Scroll through Temperature Units selection
Press 4 to select °C Degree.

Step 22. Store the Temperature Unit
Press 4 to display momentarily that the Degree Unit has been stored and the instrument will go to the next menu item.

Step 23. Enter to Filter Constant Submenu
Display shows 0.0 Set Filter Constant Submenu.

Step 24. Display the Filter Constant value Submenu
Press 4 to display the flashing, previously selected Filter Constant.

Step 25. Scroll through available Filter Constants
Press 4 to sequence through 0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.8 1.0 1.5 2.0

Step 26. Store the Filter Constant
Press 4 momentarily to store 0.05 Set Filter Constant and the instrument will automatically go to the next menu item.

Step 27. Enter Alarm 1 Menu
The display shows 0.0 Enables Alarm 1 Menu. In the following steps we are going to enable Alarm 1, Deviation, Unlatched, Normally Open, Active Above, Enable Power on and +2°F High Alarm I.e. Process Value is greater than Setpoint Value +2°F which will activate Alarm 1.

Step 28. Enter Alarm 1 Enable Disable Submenu
Press 4 to display flashing 0.0 Enables Alarm 1 Menu.

Step 29. Enable Alarm 1 Submenu
If flashing 0.0 is displayed, press 4 if 0.0 is displayed, press 4 until 0.0 is displayed, then press 4 to store and go to the next menu item.

Step 30. Select the Deviation Control Type Submenu
Press 4 to display flashing Deviation is displayed press 4, otherwise press 4 until flashing 0.0 is shown. Now press 4 to store and go to next menu item.

Step 31. Select the Latched Type Submenu
Press 4 if flashing 0.0 is displayed press 4, otherwise press 4 until 0.0 is displayed. Press 4 to store and go to Adv and menu item.

Step 32. Select the Normally Open Type of Contact
Closure Submenu
Press 4 if Flashing Normally Open is displayed, press 4 otherwise press 4 until 0.0 is displayed. Press 4 to store and advance to next menu item.

Step 33. Select the Above Type of Active Submenu
Press 4 if flashing Above, Above is displayed, press 4 otherwise press 4 until 0.0 is displayed. Press 4 to store and advance to next menu item.

Step 34. Enable Alarm 1 at Power On
Press 4 if 0.0 is displayed, press 4 otherwise press 4 until 0.0 is displayed. Press 4 to store and go to next menu item.

Step 35. Enter Alarm 1 High Submenu
Press 4 twice to skip to Alarm 1 Low value. Press 4 for both 0.0 and/or 0.0 for both.

Step 36. Set the Alarm 1 High value
Press 4 or 0.0 until value to set the display to 0.0. Press 4 to save.

Step 37. Enter the Alarm 2 Menu
The display will show 0.0 on the top menu for Alarm 2. Repeat steps from 26 to 34 to set for Alarm 2 the same conditions as for Alarm 1.

Step 38. Skip the Loop Break Time Menu
Press 4 to go to the 0.0 Output 1 menu item.

Step 39. Configuration the Output 1 Menu

Set Alarm 1 Disabled (Step 29) to be able to Enable Alarm 2 Menu.

Configure 0.0 or 0.0 to FC 40 0.1 0.01 0.001 Filter Constant or 0.0 is displayed.

Press 4 to save.

Step 40. Configuration of Display Color Selection
Press 4 to display on the Filter Color Selection Menu appears on the Display. Configure 0.0 as RED (red), GREEN (green), GRN (green) or BLU (blue). Please refer to the operator’s manual if needed.

Step 41. Run a Test
Press 4 to reset the controller and return to RUN Mode to display 0.0.

If Analog Output Option is enabled and installed, the controller will skip Alarm 1 Menu item to Analog Output.

Step 28. Enter Alarm 1 Enable Disable Submenu
Press 4 to display flashing 0.0 Enables Alarm 1 Menu.

Step 29. Enable Alarm 1 Submenu
If flashing 0.0 is displayed, press 4 if 0.0 is displayed, press 4 until 0.0 is displayed, then press 4 to store and go to the next menu item.
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/specs/series 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 EN61010-1:2001. Remember that the unit has no power-on switch. Building installation should include a switch or circuit-breaker that must be compliant to IEC947-1 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 reason.
- 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.

Panel Mounting Instruction:

1. Using the dimensions from the panel cutout diagram shown above, cut an opening in the panel.
2. 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.
3. Slide the retainer over the rear of the case and tighten against the backside of the mounting panel.

WIRING

Wire the instrument according to the figure shown below.

Warning: Do not connect ac power to your device until you have connected 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!

FLOW CHART

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

OPERATION - (For Thermocouple Input)

Step 1. Apply Power to the Instrument
When your device is first powered up it will display the ambient temperature in °C/F.

Step 2. Enter Setpoint 1 Menu
Press  to one time from run mode to get to SP1 Setpoint 1.

Step 3. Enter the Setpoint 1 Value Submenu
Press , Display shows the previous selection of Setpoint 1.

Step 4. Change the Setpoint 1 Value
Press  until desired value is displayed.

Step 5. Store the Setpoint 1 Value
Set the Setpoint 1 to 10 degree higher than Process value(SP1 = 85) and press  to store, display flashes STRD message and advances to Setup 2 Menu.

Step 6. Store the Setpoint 2 Value
Repeat steps 3 and 4. Set the Setpoint 2 to 5 degree higher than Process value (SP2 = 80) and press  to store, display flashes STRD message and advances to Setup 3 Configuration Menu.

Step 7. Enter the Input Type Menu
Press  to enter Input Type Menu.

Step 8. Enter to the submenu items of Input Menu
Press  to display Input: Process, RTD or Thermocouple. If flashing is displayed press  and proceed to Step 11.

Step 9. Scroll through available selection of Input Menu
Press  until a flashing Input: Process, RTD or Thermocouple is displayed.

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).

It is required that you put the controller in Standby Mode for any configuration changes other than Setpoints and Alarms.

Underline denotes factory default setup