Step 1. Apply Power to the Instrument
When your device is first powered up it will display the ambient temperature (assume 75°F).

Step 2. Enter Setpoint 1 Menu
Press & hold one from run mode to get to SETP 1 menu.

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 or 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.

Step 6. Store the Setpoint 2 Value
Repeat steps 2 and 4. Set the Setpoint 2 to 5 degree higher than Process value. (SP2 = 90) and press to store.

Step 7. Enter the Reading Config Menu
Press to enter Reading Config Menu.

Step 8. Enter the submenu items of Rdg Config Menu
Press to display Submenu. Sensor selection for AutoCal, Log and Scan is for temperature and for Humidity.

Step 9. Enter the submenu items of Rdg Config Menu
Press to display Temp Unit submenu.

Step 10. Scroll thru selection for Temp Unit submenu
Press to display the available selections of the Temperature Unit of your choice: °F or °C.

Step 11. Store the Temperature Unit
Press, display momentarily shows °F or °C the Unit has been stored and the instrument will go automatically to the next menu item.

Step 12. Enter the Filter Constant Submenu
Press & display shows Filter Constant Submenu.

Step 13. Display the Filter Constant Value Submenu
Press to display the flashing, previously selected Filter Constant.

Step 14. Scroll through available Filter Constants
Press to scroll through the available Filter Constants.

Step 15. Store the Filter Constant
Press momentarily to store the Filter Constant and the instrument will automatically go to the next menu item.

Step 16. Enter Alarm Menu
The display will show AMB2 the top menu for Alarm 1. In the following steps we are going to enable Alarm 1, Deletion, Unlatch, Normally Open, Active Above, Enable at power-on and +2°F High Alarm i.e. Process Value > Setpoint Value +2°F will activate Alarm 1.

- If Analog Output Option is installed and enabled, the controller will skip Alarm Menu 1 item to Analog Output.
- Alarm must be DISABLED if RAM is ENABLED.
- Alarm 1 will only work for Humidity, not Temperature.

Step 17. Enter Alarm 1 Enable/Disable Submenu
Press to display flashing "ON/0.".

Step 18. Enable Alarm 1 Submenu
If flashing "0." is displayed press . If flashing "0." is displayed press until "ON/0." is displayed, then press to store and go to the next menu item.

Step 19. Select the Deviation Control Type Submenu
Press . If flashing "0." Deviation is displayed press , otherwise press until flashing "0." is shown. Now press to store and go to the next menu item.

Step 20. Select the Latched Type Submenu
Press . If flashing "0." Unlatched is displayed press , otherwise press until flashing "0." is displayed. Press to store and advance to next menu item.

Step 21. Select the Normally Open Type of Contact Submenu
Press . If flashing "0." Normally Open is displayed press , otherwise press until flashing "0." is displayed. Press to store and advance to next menu item.

Step 22. Select the Above Type of Active Submenu
Press . If flashing "0." Above is displayed press , otherwise press until flashing "0." is displayed. Press to store and advance to next menu item.

Step 23. Enable Alarm 1 at Power On Submenu
Press until flashing "0." is shown. Press to store and advance to next menu item.

Step 24. Enter Alarm 1 High Submenu
Twice to switch Alarm 1 Low value. Press for above & .

Step 25. Set the Alarm 1 High value
Press Press or until value to set the display to . Press to save.

Step 26. Enter the Alarm 2 Menu
The display will show ALR2 the top menu for Alarm 2. Repeat steps from 17 to 25 to set for Alarm 2 the same conditions as for Alarm 1.

Step 27. Skip the Loop Break Time Menu
Press to go to the the Output 1 Menu item.

Step 28. Configuration the Output 1 Menu
Set Alarm 1 Disabled (Step 18) to be able to Enable Output 1.

- CONFIGURE ALARM 1:

  ConfigOut 1 as... as
  1. Press or until value to set the display to . Press to save and go to the next menu item.

Step 29. Configuration of Display Color Selection Menu
Press until the LCD Display Color Selection Menu appears on the Display. ConfigOut 1 as LCD/LED. (green) Press until LCD/LED. (amber). Please refer to the operator’s manual if needed.

- For color change on Setpoints refer to Owners Manual Section 2.
**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 IEC 947-1 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 reasons.
- 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.

**MOUNTING**

Panel Mounting Instructions:
1. Using the dimensions from the panel cutout shown in exploded views, cut an opening in the panel. 45mm x 61.00 x 92mm x 85.00 with R 1.5, 4 places (1.772” x 0.024” x 0.062” x 0.032”) Panel thickness: 6.4mm (0.25”) max / 0.8mm (0.03”) min.
2. Remove sleeve from the rear of the case by removing thumbnuts.
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. Slip the sleeve over the rear of the case.
5. Tighten the thumbnuts to hold the unit firmly in the panel.

**DISASSEMBLY INSTRUCTIONS**

If necessary, the unit may be removed from the panel and

**WARNING:** Disconnect all ac power from the unit before proceeding.

1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
2. The meter is front removable from the case.
3. Pull the board assembly out of the case.

**WIRING**

Wire the instrument according to the figure shown below.

**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 specially trained technician with corresponding qualifications. Failure to follow all instructions and warnings may result in injury!

**FLOW CHART**

Refer to Operator’s Manual for important Input Probe Shield wiring notes.

**DESCRIPTION OF FRONT PANEL**

The Dual Display allows the user to observe the Relative Humidity or Dewpoint (upper display) and Temperature Value (lower display), at the same time.

**CONFIGURATION**

The instrument has two different modes of operation. Run Mode: used to display Temperature and Relative Humidity Menu Configuration Mode: used to navigate through the menu options and configure the controller.

**WIRING**

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

**FLOW CHART**

Refer to the configuration flow chart for details.

**Button Function in Configuration Mode**

- To enter the Menu, the user must first press **MENU**
- Use this button to advance/navigate to the next menu.
- The user may navigate through all the top level menus by pressing **MENU**
- While a parameter is being modified, press **ENTER** to escape without saving the parameter.
- Press the **UP** or **DOWN** button to scroll through “flashing” selections. When a numerical value is displayed press this key to increase value of a parameter that is currently being modified.
- Pressing the **UP** button for approximately 3 seconds will speed up the rate at which the set point value is decremented.
- In the Run Mode, pressing the **UP** button changes display from RH readings to Temperature readings.
- Press the down **DOWN** button to go back to a previous Top Level Menu item.
- Press this button twice to reset the controller to the Run Mode.
- When a numerical value is flashing (except set point value) press **ENTER** to scroll digits from left to right allowing the user to select the desired digit to modify.
- When a setpoint value is displayed press **ENTER** to decrease value of a setpoint that is currently being modified.
- Pressing the **UP** button for approximately 3 seconds will speed up the rate at which the setpoint value is decremented.
- In the Run Mode, pressing the **DOWN** button changes from RH readings to Dewpoint readings.
- Press **ENTER** to access the submenus from a Top Level Menu item.
- Press **ENTER** to store a submenu selection or after entering a value - the display will flash a message to confirm your selection.
- In the Run Mode, press **ENTER** twice to enable Standby Mode with flashing **STBY**.