Step 1. Apply Setpoint Power to the Instrument. When the power is first supplied it will light the ambient temperature (assumed 75°F).

Step 2. Enter Setpoint 1 Menu Press 1 before powering up to get to SP1 setpoint 1.

Step 3. Enter the Setpoint 1 Value
Press 9, 5, 3, 8 to display the previous selection of Setpoint 1.

Step 4. Change the Setpoint 1 Value
Press 0 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 = 80) and press to store the display flashes message and advances to SP2 Setpoint 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 = 85) and press to store display flashes message and advances to Configuration Menu.

Step 7. Enter the Reading Config Menu
Press 0 to enter READING Config Menu.

Step 8. Enter the sub menus of Rdg Config Menu
Press to display SENSOR sub menu. SENSOR: Sensor selection for Auto, Log, or Ramp and Scale. For temperature and pressure is for Humidity.

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

Step 10. Scroll thr through selection for Temp Unit submenu
Press to scroll through the available options of the Temperature Unit of your choice: °F or °C.

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

Step 12. Enter the Filter Constant Submenu
Press to display hours, previously selected Filter Constant.

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

Step 14. Through available Filter Constants
Press to display the available, previously selected Filter Constants.

Step 15. Store the Filter Constant
Press to momentarily store the Filter Constant.

Step 16. Enter Alarm 1 Menu
The display will show -999 until 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 1 Value +2°F will activate Alarm 1.

- If Analog Output Option is installed and enabled, the controller will skip Alarm 1 Menu to Analog Output.
- Alarm must be DISABLED if Ramp is ENABLED.
- Alarm1 will only work for Humidity, not Temperature.

Step 17. Enter Alarm 1 Enable/Disable Submenu
Press to display flashing ALR.

Step 18. Enable Alarm 1 Submenu
If flashing ALR is displayed, press to display, ALR is displayed, press to enable and go to store and go to the next menu item.

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

Step 20. Set the Latched Type Submenu
Press if flashing UNL is displayed, otherwise press until UNL is displayed. Press to store and advance to next menu item.

Step 21. Select the Normally Open Type of Contact Submenu
Press if flashing NO is displayed, otherwise press until NO is displayed. Press to store and advance to next menu item.

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

Step 23. Enable Alarm 1 at Power On
Press if flashing ENBL is displayed, otherwise press until ENBL is displayed. Press to store and advance to next menu item.

Step 24. Enter Alarm 1 High Submenu
Press twice to select Alarm 1 High. Press is for below & is for above.

Step 25. Set the Alarm 1 High Value
Press 0 or until value is set to the display to 999. Press to save.

Step 26. Enter the Alarm 2 Menu
The display will show -999, 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 ALARM Output 1 menu item.

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

Step 29. Configuration of Display Color Selection
Press until the (red), (green), or (red) for display. Configure press DSBL (red), red (green), amber programmable colors for setpoint and temperature units.

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

SPECIFICATION

SENSORS SPECIFICATIONS

Sensitivity: 2% for 10 to 90% RH, 2% for 10 to 90% RH

Accuracy: ±1% RH

Response Time: 8 sec, rise 63%

Resolution: 0.1% RH Resolution: 0.1% RH

Temperature Accuracy/Range: ±0.1°C for 0 to 40°C (±0.2°F for 32 to 104°F)

Relative Humidity Accuracy/Range: ±0.5°C for 0 to 40°C (±2°F for 32 to 104°F).

DRY BULB TEMPERATURE: 25°C (77°F), 50°C (122°F), 70°C (158°F), 85°C (185°F) 10°C (50°F), 20°C (68°F) 30°C (86°F)

MINIMUM: 10°C (50°F), 20°C (68°F) 30°C (86°F) MAXIMUM: 90°C (194°F)

Temperature Accuracy/Range: ±0.5°C for 0 to 40°C (±1°F for 32 to 104°F), up to ±1°C for 40°C to 124°C, up to ±1°C for 5°C to 40°C (±1°F for 41 to 104°F), up to ±1°C for 40°C to 124°C (±2°F for 41 to 104°F, ±3°F for 105°F to 124°F). Non-linear correction in the range for the Control's operating range is ±0.1°C

Resistance: 25.2±4 kΩ for 4 to 20 mA, 3.3±0.4 kΩ for 10 VDC

Dimensions: 25.4±4 98 128.3 03mm ±0.3

Weight: 0.05 (2.9 lb)

Approvals: CE per EN61010-1 2001

Specifications may change without notice.

WARNING: These products are not designed for use in, and should not be used for, patient monitoring applications or any other application which may impact human life.

This device is marked with the international caution symbol. It is intended to be used in the environment as specified above, as the guide to the safe use of the device. The device may malfunction if it is used outside the specified environment.

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TRADEMARK NOTICE

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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 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.

Disassembly Instruction:
If necessary, the unit may be removed from the panel and opened.

1. Make sure the AC power is disconnected.
2. Remove all wiring connections from the rear of the meter. To remove power and input connectors, bend the panel detents on the case outward to release the connectors, then pull connectors from the meter.
3. To remove meter from the case, squeeze left and right sides of the bezel to release, then pull from 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 electrician with corresponding qualifications. Failure to follow all instructions and warnings may result in injury!

FUSE 1 Power N/A N/A N/A N/A
FUSE 2 Power N/A 100 mA(T) 100 mA(T) 100 mA(T)
FUSE 3 Power N/A 100 mA(T) 100 mA(T) 100 mA(T)
FUSE 4 Power N/A N/A N/A 400 mA(T)

Underline denotes factory default setup

DESCRIPTION OF FRONT PANEL

The display may be RH, Temperature or Dewpoint readings depending on your Reading Configuration selections. Factory defaults are shown. Note: A Dual Display unit allows the user to observe the Relative Humidity or Dewpoint (upper display) and Temperature Value (lower display), at the same time.

Alert indication: The display may be RH, Temperature or Dewpoint readings depending on your Reading Configuration selections. Factory defaults are shown. Note: A Dual Display unit allows the user to observe the Relative Humidity or Dewpoint (upper display) and Temperature Value (lower display), at the same time.

Menu Configuration Mode

• In the Run Mode, pressing the button twice to enable Standby
• In the Run Mode, pressing the button to go back to a previous Top Level Menu item.
• Press this button to scroll through ‘flashing’ selections. When a numerical value is displayed press this key to increase or decrease a parameter that is currently being modified.
• Pressing the button for approximately 3 seconds will speed up the rate at which the selected value increments.
• In the Run Mode, pressing the button changes display from RH readings to Temperature readings.

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.

DESCRIPTION OF FRONT PANEL

1. Output 1/Setpoint 1/Alarm 1 indicator
2. Output 2/Setpoint 2/Alarm 2 indicator
3. F unit indicator for Temperature or Dewpoint
4. Display shows the Dewpoint
5. Display shows the Setpoint
6. Display shows the Temperature
7. Used in Program Mode:
8. Used in Program Mode:
9. Accesses submenus in Configuration Mode and stores selected values*

FLOW CHART

Underline denotes factory default setup

Menu Configuration Mode

• To enter the Menu, the user must first press button.
• Use this button to advance/navigate to the next menu item. The user can navigate through all the top level menus by pressing .
• While a parameter is being modified, press to escape without saving the parameter.
• Press the up button to scroll through ‘flashing’ selections. When a numerical value is displayed press this key to increase or decrease a parameter that is currently being modified.
• Pressing the button for approximately 3 seconds will speed up the rate at which the selected value increments.
• In the Run Mode, pressing the button changes display from RH readings to Temperature readings.
• Press the down button to go back to a previous Top Level Menu item.
• Press this button twice to reset the controller to the Run Mode.

Button Function in Configuration Mode

1. Press the enter button twice to reset the controller to the Run Mode.
2. When a setpoint value is displayed press to decrease value of a setpoint that is currently being modified. Pressing the button for approximately 3 seconds will speed up the rate at which the selected value is decremented.
3. In the Run Mode, pressing the button changes display from RH readings to Temperature readings.
4. Press the enter button twice to access the submenus from a Top Level Menu item.
5. Press to store a submenu selection or after entering a value - the display will flash a .
6. Use this button to advance/navigate to the next menu item. The user can navigate through all the top level menus by pressing .
7. While a parameter is being modified, press to escape without saving the parameter.

MOUNTING

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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.
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Wire the instrument according to the figure shown below.

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FUSE 3 Power N/A 100 mA(T) 100 mA(T) 100 mA(T)
FUSE 4 Power N/A N/A N/A 400 mA(T)

Underline denotes factory default setup

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