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

Step 2. Enter Setpoint 1 Menu
Press 0 from run mode to get to 001 Setpoint 1.

Step 3. Enter the Setpoint 1 Value Submenu
Press 0. Display shows the previous selection of Setpoint 1.

Step 4. Change the Setpoint 1 Value
Press 0 or 3 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 0 to store displays flashes. Press message and advances to 002 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 0 to store displays flashes. Press 0 message and advances to 003 Setpoint 3 Menu.

Step 7. Enter the Reading Config Menu
Press 0 to enter 004 Reading Config Menu.

Step 8. Enter the submenu items of Rdg Config Menu
Press 0 to display 005 Sensor Submenu. Sensor selection for Autoloe, Log, Ramp and Scan menu is for temperature and 006 Humidity is for Humidity.

Step 9. Enter the submenu items of Rdg Config Menu
Press 0 to display Temp Unit submenus.

Step 10. Scroll thru selection for Temp Unit submenu
Press 0 to scroll though the available selections of the Temperature Unit of your choice: °F or °C.

Step 11. Store the Temperature Unit
Press 0. 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 0 to display the flashing, previously selected Filter Constant.

Step 13. Display the Filter Constant Value Submenu
Press 0 to display the flashing, previously selected Filter Constant.

Step 14. Scroll through available Filter Constants
Press 0 or 3 until desired filter value is displayed.

Step 15. Store the Filter Constant
Press 0 momentarily to store 007 Filter Constant and the instrument will automatically go to the next menu item.

Step 16. Enter Alarm 1 Menu
The display will show 008 the top menu for Alarm 1. In the following steps we are going to enable Alarm 1. Deactivation, Unlatch, Normally Open, Active Above, Enable at power-on and +2°F High Alarm i.e. Process Value > Setpoint 1 +2°F will activate Alarm 1.

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

Step 17. Enter Alarm 1 Enable/Disable Submenu
Press 0 to display 009 Filter Constant.

Step 18. Enable Alarm 1 Submenu
If flashing 010 Filter Constant is displayed press 0 or 3, if 010 Filter Constant is displayed, press 0 or 3 until 010 Filter Constant is displayed, then press 0 to store and go to the next menu item.

Step 19. Select the Deviation Control Type Submenu
Press 0. If flashing 011 Filter Constant is displayed press 0 or 3, otherwise press 0 until flashing 011 Filter Constant is shown. Now press 0 to store and go to the next menu item.

Step 20. Select the Latched Type Submenu
Press 0. If flashing 012 Filter Constant is displayed press 0 or 3, otherwise press 0 until flashing 012 Filter Constant is displayed. Press 0 to store and advance to next menu item.

Step 21. Select the Normally Open Type of Contact Submenu
Press 0. If flashing 013 Filter Constant is displayed press 0 or 3, otherwise press 0 until flashing 013 Filter Constant is displayed. Press 0 to store and advance to next menu item.

Step 22. Select the Above Type of Active Submenu
Press 0. If flashing 014 Filter Constant is displayed press 0 or 3, otherwise press 0 until flashing 014 Filter Constant is displayed. Press 0 to store and advance to next menu item.

Step 23. Enable Alarm 1 at Power On
Press 0. If flashing 015 Filter Constant is displayed press 0 or 3, otherwise press 0 until flashing 015 Filter Constant is displayed. Press 0 to store and advance to next menu item.

Step 24. Enter Alarm 1 High Submenu
Press 0 twice to skip 016 Alarm 1 Low value. 016 Filter Constant is for below & above.

Step 25. Set the Alarm 1 High Value
Press 0 or 3 until value to set the display to 017 Filter Constant. Press 0 to save.

Step 26. Enter the Alarm 2 Menu
The display will show 018 the top menu for Alarm 2. Repeat steps from 17 to 25 to set for Alarm 2 the same.

Step 27. Skip the Latch Break Time Menu
Press 0 to go to the 019 Filter Constant 1 Output Menu item.

Step 28. Configuration of 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 0 until the 020 Filter Constant 2 Color Selection Menu appears on the display. Configure 020 Filter Constant 2 (green), (red), and (amber). Press 0 to refer the operator’s manual if needed.

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

**OPERATION**
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.newportus.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 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.
- Do not expose this instrument to rain or moisture.
- Never operate this instrument in flammable or explosive atmospheres.
- Always disconnect power before changing signal and power connections.
- Do not exceed voltage rating on the label located on the top of the instrument housing.
- Do not expose this instrument to rain or moisture.

WIRING

Wire the instrument according to the figure shown below.

![Wiring Diagram](image)

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!

MOUNTING

Panel Mounting Instruction:
1. Using the dimensions from the panel cutout shown in exploded views, cut an opening in the panel. 45mm + .61/-.00 x 92mm +.81/-.00 with R 1.5, 4 places
2. Slip the sleeve over the rear of the case.
3. Insert the unit into the opening from the front of the panel, so that 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 Instruction:
If necessary, the unit may be removed from the panel and opened.

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.

DESCRIPTION OF FRONT PANEL

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

![Front Views](image)

Configuration Flow Chart

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

* * if unit is equipped with option.

Underline denotes factory default setup.

CONFIGURATION

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

- Pressing the **button twice to reset the controller to the Run Mode.**
- When a setpoint value is displayed press **button for approximately 3 seconds will speed up the rate at which the setpoint value is decremented.**
- In the Run Mode, pressing the **button changes display from RH readings to Temperature readings.**
- Press **button to return to previous parameter.**
- Press **button to go back to a previous parameter.**
- Press **button twice to reset the controller to the Run Mode.**
- Press **button to store a submenu selection or after entering a value - the display will flash a storage message to confirm your selection.
- Press **button twice to enable Standby Mode with flashing **.