Step 16. Display the Decimal Point position
Press \( \text{\textcircled{A}} \) again to display the flashing Decimal Point position.

Step 17. Select the Decimal Point position
Press \( \text{\textcircled{B}} \) to select \( \text{\textcircled{C}} \) Decimal Point position.

Step 18. Store selected Decimal Point position
By pressing \( \text{\textcircled{C}} \) 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 \( \text{\textcircled{D}} \) Temperature Unit.

Step 20. Display available Temperature Units
Press \( \text{\textcircled{A}} \) to display the flashing Degree \( \text{\textcircled{F}} \).

Step 21. Scroll through Temperature Units selection
Press \( \text{\textcircled{B}} \) to select Degree.

Step 22. Store the Temperature Unit
Press \( \text{\textcircled{C}} \) 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 \( \text{\textcircled{G}} \) Filter Constant Submenu.

Step 24. Display the Filter Constant Value Submenu
Press \( \text{\textcircled{A}} \) to display the flashing, previously selected Filter Constant.

Step 25. Scroll through available Filter Constants
Press \( \text{\textcircled{B}} \) to sequence through Filter Constants \( \text{\textcircled{H}} \), \( \text{\textcircled{I}} \), \( \text{\textcircled{J}} \), \( \text{\textcircled{K}} \), \( \text{\textcircled{L}} \), \( \text{\textcircled{M}} \), \( \text{\textcircled{N}} \), \( \text{\textcircled{O}} \), \( \text{\textcircled{P}} \), \( \text{\textcircled{Q}} \), \( \text{\textcircled{R}} \), \( \text{\textcircled{S}} \), \( \text{\textcircled{T}} \), \( \text{\textcircled{U}} \), \( \text{\textcircled{V}} \), \( \text{\textcircled{W}} \), \( \text{\textcircled{X}} \), \( \text{\textcircled{Y}} \), \( \text{\textcircled{Z}} \), and \( \text{\textcircled{0}} \).

Step 26. Store the Filter Constant
Press \( \text{\textcircled{C}} \) momentarily to store \( \text{\textcircled{O}} \) Filter Constant and the instrument will automatically go to the next menu item.

Step 27. Enter Alarm 1 menu
The display will show \( \text{\textcircled{D}} \) 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 \( \text{\textcircled{E}} 2^\text{F} \) High Alarm i.e. Process Value \( > \) Setpoint Value \( \text{\textcircled{F}} \) will activate Alarm 1.

Step 28. Enter Alarm 1 Enable/Disable Submenu
Press \( \text{\textcircled{A}} \) to display flashing \( \text{\textcircled{G}} \) \( \text{\textcircled{H}} \).

Step 29. Enable Alarm 1 Submenu
If flashing \( \text{\textcircled{I}} \) is displayed, press \( \text{\textcircled{J}} \). If flashing \( \text{\textcircled{K}} \) is displayed, press \( \text{\textcircled{L}} \) until \( \text{\textcircled{M}} \) is displayed. Press \( \text{\textcircled{N}} \) to store and go to the next menu item.

Step 30. Select the Deviation Control Type Submenu
Press \( \text{\textcircled{A}} \) if flashing \( \text{\textcircled{O}} \) Deviation is displayed press \( \text{\textcircled{P}} \), otherwise press \( \text{\textcircled{Q}} \) until \( \text{\textcircled{R}} \) is displayed. Press \( \text{\textcircled{S}} \) to store and go to next menu item.

Step 31. Select the Latched Type Submenu
Press \( \text{\textcircled{A}} \) if flashing \( \text{\textcircled{T}} \) Unlatched is displayed, otherwise \( \text{\textcircled{U}} \) until \( \text{\textcircled{V}} \) is displayed. Press \( \text{\textcircled{W}} \) to store and advance to next menu item.

Step 32. Select the Normally Open Type of Contact Submenu
Press \( \text{\textcircled{A}} \) if flashing \( \text{\textcircled{X}} \) Normally Open is displayed, otherwise \( \text{\textcircled{Y}} \) press \( \text{\textcircled{Z}} \) until \( \text{\textcircled{1}} \) is displayed. Press \( \text{\textcircled{2}} \) to store and advance to next menu item.

Step 33. Select the Above Type of Active Submenu
Press \( \text{\textcircled{A}} \) if flashing \( \text{\textcircled{3}} \) Above is displayed, press \( \text{\textcircled{4}} \), otherwise press \( \text{\textcircled{5}} \) until \( \text{\textcircled{6}} \) is displayed. Press \( \text{\textcircled{7}} \) to store and advance to next menu item.

Step 34. Enable Alarm 1 at Power On (\( \text{\textcircled{8}} \))
Press \( \text{\textcircled{A}} \). If flashing \( \text{\textcircled{9}} \) is displayed, press \( \text{\textcircled{0}} \), otherwise press \( \text{\textcircled{10}} \) until \( \text{\textcircled{11}} \) is displayed. Press \( \text{\textcircled{12}} \) to store and advance to next menu item.

Step 35. Enter Alarm 1 High Submenu
Press twice to step to display the Alarm 1 Low value. \( \text{\textcircled{13}} \) is displayed. Press \( \text{\textcircled{14}} \) or \( \text{\textcircled{15}} \) until the setting to display the \( \text{\textcircled{16}} \) Press to save.

Step 36. Set the Alarm 1 High value (\( \text{\textcircled{17}} \))
Press \( \text{\textcircled{18}} \) or \( \text{\textcircled{19}} \) until value to set the display to \( \text{\textcircled{20}} \) Press to save.

Step 37. Enter the Alarm 2 Menu
The display will show \( \text{\textcircled{21}} \) the top menu for Alarm 2. Repeat steps from 28 to 36 to set for Alarm 2 the same conditions as for Alarm 1.

Step 38. Configuration of Display Color Selection
Press \( \text{\textcircled{22}} \) until the \( \text{\textcircled{23}} \) Display Color Selection Menu appears. Press \( \text{\textcircled{24}} \) (Red), \( \text{\textcircled{25}} \) (Green), \( \text{\textcircled{26}} \) (Yellow), \( \text{\textcircled{27}} \) (Blue), \( \text{\textcircled{28}} \) (White), and \( \text{\textcircled{29}} \) ( amber). Please refer to the operator’s manual if needed.

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

Step 39. Run a Test
Press \( \text{\textcircled{30}} \) until reset the controller and return to Run Mode to display \( \text{\textcircled{31}} \) (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 \( \text{\textcircled{32}} \) and \( \text{\textcircled{33}} \) 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 \( \text{\textcircled{34}} \) and Display Color will change from Amber to Red.

The display will show \( \text{\textcircled{35}} \) to \( \text{\textcircled{36}} \), \( \text{\textcircled{37}} \) to \( \text{\textcircled{38}} \), \( \text{\textcircled{39}} \) to \( \text{\textcircled{40}} \). If flashing \( \text{\textcircled{41}} \) is shown. Now \( \text{\textcircled{42}} \) and Display Color will change from \( \text{\textcircled{43}} \) to \( \text{\textcircled{44}} \).
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 Class II of EN61010-1. 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

CAUTION:
- Mounting Big Display Through Panel:
  1. Using the panel cutout diagram shown above, 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. To save a selected flashing display to store, display flashes STRD and puts the instrument into standby, which disables all outputs and alarms.
2. To enter to the Thermocouple Input Submenu Press to display Thermocouple Input Submenu.

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 one time from run mode to get to Setpoint 1 Menu.

Step 3. Enter the Setpoint 1 Value Submenu
Set the Setpoint 1 to 10 degree higher than Process value to store your selection, the instrument automatically advances to the next menu item.

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, display flashes 2 SP and message and advances to 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 = 80) and press to store, display flashes SP2 message and advances to 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 to sequence thru flashing for 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).

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 type "CHROMEGA®/ALOMEGA")

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 to Reading 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 to show DEC Decimal Point.