Step 11. Enter to the Thermocouple Type Input Submenu Press \( \bullet \) to display flashing, previously selected Thermocouple type.

Step 12. Scroll through available selection of TC types Program \( \bullet \) to sequence thru flashing Thermocouple types, \( \text{k} \) for type “K” CHROMEL/ALUMEL, \( \text{j} \) K T E N D J N R S B C - TC types \( \text{j} \) K T E N d j N R S B C - Display

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

Step 14. Enter to the Reading Configuration Menu The display shows \( \text{RDG} \) flashing configuration, which is the top menu for 4 submenus: Decimal Point, Degree Units, Filler Character and Input/Reading Submenus.

Step 15. Enter to Decimal Point Submenu Press \( \bullet \) to display Decimal Point.

Step 16. Display the Decimal Point position Press \( \bullet \) again to display the flashing Decimal Point position.

Step 17. Select the Decimal point position Press \( \bullet \) to select \( \bullet \) Decimal point position.

Step 18. Store selected Decimal point By pressing \( \bullet \) 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 \( \text{TEM} \) flashing Temperature Unit.

Step 20. Display available Temperature Units Press \( \bullet \) to display the flashing Degree Unit.

Step 21. Scroll through Temperature Units selection Press \( \bullet \) to select \( \bullet \) Degree.

Step 22. Store the Temperature Unit Press \( \bullet \) to display momentarily that the Degree Unit has been stored and the instrument will go automatically to the next menu item.

Step 23. Enter to the Filter Constant Submenu Display shows \( \text{FLT} \) flashing Filter Constant Submenu.

Step 24. Display the Filter Constant Value Submenu Press \( \bullet \) to display the flashing, previously selected Filter Constant.

Step 25. Scroll through available Filter Constants Press \( \bullet \) to sequence thru \( \bullet \) available Filter Constants.

Step 26. Store the Filter Constant Press \( \bullet \) momentarily to store \( \bullet \) Filter Constant and the instrument will automatically go to the next menu item.

Step 27. Enter to the Alarm Menu The display will show \( \text{ALRM} \) flashing the top menu for 4 submenus: Alarm 1, Alarm 2, Alarm 3, and Alarm 4.

Step 28. Enter Alarm 1 Enable/Disable Submenu Press \( \bullet \) to display flashing \( \text{ENBL} \).

Step 29. Enable Alarm 1 Submenu If flashing \( \text{ALRM} \) is displayed, press \( \bullet \), if \( \text{ALRM} \) is displayed, press \( \bullet \) until \( \text{ENBL} \) is displayed, then press \( \bullet \) to store and go to the next menu item.

Step 30. Select the Deviation Control Type Submenu Press \( \bullet \) to display flashing \( \text{DEV} \), otherwise press \( \bullet \) until flashing \( \text{DEV} \) is shown. Now press \( \bullet \) to store and go to next menu item.

Step 31. Select the Latched Type Submenu Program \( \bullet \) to display flashing \( \text{LATH} \), Press \( \bullet \) to display flashing \( \text{LATH} \), otherwise press \( \bullet \) until flashing \( \text{LATH} \) is displayed. Press \( \bullet \) to store and advance to next menu item.

Step 32. Select the Normally Open Type of Contact Closure Submenu Program \( \bullet \) to display flashing \( \text{N.O.} \), Normally Open is displayed, Press \( \bullet \) otherwise press \( \bullet \) until flashing \( \text{N.O.} \) is displayed. Press \( \bullet \) to store and advance to next menu item.

Step 33. Select the Above the Type of Active Submenu Press \( \bullet \) if flashing \( \text{ALRM} \) is displayed, above press \( \bullet \), otherwise press \( \bullet \) until flashing \( \text{ALRM} \) is displayed. Press \( \bullet \) to store and advance to next menu item.

Step 34. Enable Alarm 1 at Power On ( \( \text{PWR} \) ) Press \( \bullet \) if flashing \( \text{ALRM} \) is displayed, Press \( \bullet \) otherwise Press \( \bullet \) until flashing \( \text{ALRM} \) is displayed. Press \( \bullet \) to store and advance to next menu item.

Step 35. Enter Alarm 1 High Submenu Press \( \bullet \) to select \( \bullet \) alarm \( \text{ALRM} \) Low value. \( \text{ALRM} \) is displayed.\( \bullet \) for below & \( \bullet \) for above.

Step 36. Set the Alarm 1 High value ( \( \text{ALRM} \) ) Press \( \bullet \) or \( \bullet \) until value to set displayed to \( \text{ALRM} \), Press \( \bullet \) to save.

Step 37. Enter the Alarm 2 Menu The display will show \( \text{ALRM} \) the top menu for Alarm 2.

Step 38. Skip the Loop Break Time Menu ( \( \text{BRT} \) ) Press \( \bullet \) to go to the \( \text{ALRM} \) Output 1 Menu Item.

Step 39. Configuration the Output 1 Menu Set Alarm 1 Disabled (Step 29) to be able to Enable Output 1.

Step 40. Run a Test Press \( \bullet \) until test the controller and return to RUN Mode to display \( \text{ALRM} \) (Ambient Temperature). Now you are ready to observe the temperature as the point at which the display is higher than shown.

Step 41. A Run a Test Menu Press \( \bullet \) until reset the controller and return to RUN Mode to display \( \text{ALRM} \) (Ambient Temperature). Now you are ready to observe the temperature as the point at which the display is higher than shown.

WARNING: These products are not designed for use and should not be used for patient connected application.

This device is marked with the international caution symbol. It is intended to be used in situations where the operator of the device is responsible for its safe operation.

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CONFIGURATION

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, then 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. 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.
2. Be sure to leave enough room around the bail (as noted on the template drawing) to allow for removal and rotation of the display.
3. The display can be rotated for the best viewing angle.

Disassembly Instruction:
- Warning: Disconnect all ac power from the unit before proceeding.
- Remove all wiring connections from the rear of the instrument, by unscrewing the power and input connectors.
- Remove six screws at the back of the display and back cover.
- Remove the Big Display from the panel.
- To remove the Big Display from the back, unscrew the two knobs at each end of the mounting brackets.

WIRING
Wire the instrument according to the Input and Output Wiring Connections described in your Operator’s Manual.

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!

FLOW CHART

Connect the Main ac 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 (75°F).

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

Step 3. Enter the Setpoint 1 Value Submenu
Press to display the previous selection of Setpoint 1.

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

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

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

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

Step 9. Scroll through available selection of Input Menu
Press until a flashing T.C 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 a different controller will stop to read menu item (Skip to Step 14).

This Quick Start Reference provides information on setting up your instrument for basic operation. The latest complete Communication and Operation 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.

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!