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 k for type “K” CHROMEGA®/ALOMEGA®)

J K T E N DIN R SB C - TC types

J K T E N din R sb c - display

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 Reading Configuration, which is the top menu for 4 submenu: Temperature Stability, Degree Units, Filter Constant and Input/Reading Submenus.

Step 15. Enter to Decimal Point Submenu
Press to show DEC Decimal Point.

Step 16. Display the Decimal Point position
Press again to display the flashing Decimal Point position.

Step 17. Select the Decimal Point position
By pressing 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 °C Temperature Unit.

Step 20. Display available Temperature Units
Press to display the flashing Degree ° or °

Step 21. Scroll through Temperature Units selection
Press to select Degree.

Step 22. Store the Temperature Unit
Press 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 Filt Filter Constant Submenu.

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

Step 25. Scroll through available Filter Constants
Press to sequence thru Filter Constants 0.0000, 0.0004, 0.0020, 0.0064, 0.0320 and 0.0640.

Step 26. Store the Filter Constant
Press momentarily to store DEC Filter Constant and the instrument will automatically go to the next menu item.

Step 27. Enter Alarm 1 Menu
Press until the ALR 1 Alarm 1 Menu appears on the Display. In the following steps we are going to Disable Latch, Active Above, Deadband 020.0, and above Setpoint 1 Value will activate Alarm 1.

Step 28. Select Latch Type Submenu
Press to display flashing, previously selected Latch Type will be displayed. Press to stop and go to the next menu item.

Step 29. Select the Above Type of Active Submenu
Press if flashing °C is displayed, press otherwise press or. Press to store and advance to next menu item.

Step 30. Select the Deadband Value Submenu
Press. The display will show °C or °F. Similarly press or to store and advance to next menu item.

Step 31. Enter the ALR2 Menu
The display will show °C or °F. Repeat steps from 29 and 30 to set for Alarm 2 the same conditions as for Alarm 1.

Step 32. Configuration of Display Color Selection
Press until the Color Display Color Selection Menu appears on the Display. Configure as °C °F (red), °C °F (amber). Please refer to the operator’s manual if needed.

Step 33. Run a Test
Press until reset the controller and return to RUN Mode to display °C (Ambient Temperature).

WARNING:
These products are not designed to be used, and should not be used for patient connection applications.

Temperature Setting:
0.0°C/°C RTD; 0.05°C/°C TC @ 25°C (77°F); 50 ppm/°C process
2. Select “K” CHROMEGA®/ALOMEGA®
3. If the unit malfunctions, it must be returned to the factory for evaluation. NEWPORT's Customer Service Department. BEFORE contacting NEWPORT:

NEWPORT MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESS OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

Step 17. Select the Decimal Point position
By pressing 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 °C Temperature Unit.

Step 20. Display available Temperature Units
Press to display the flashing Degree ° or °

Step 21. Scroll through Temperature Units selection
Press to select Degree.

Step 22. Store the Temperature Unit
Press 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 Filt Filter Constant Submenu.

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

Step 25. Scroll through available Filter Constants
Press to sequence thru Filter Constants 0.0000, 0.0004, 0.0020, 0.0064, 0.0320 and 0.0640.

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

Step 27. Enter Alarm 1 Menu
Press until the ALR 1 Alarm 1 Menu appears on the Display. In the following steps we are going to Disable Latch, Active Above, Deadband 020.0, and above Setpoint 1 Value will activate Alarm 1.

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Press to display flashing, previously selected Latch Type will be displayed. Press to stop and go to the next menu item.

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Press if flashing °C is displayed, press otherwise press or. Press to store and advance to next menu item.

Step 30. Select the Deadband Value Submenu
Press. The display will show °C or °F. Similarly press or to store and advance to next menu item.

Step 31. Enter the ALR2 Menu
The display will show °C or °F. Repeat steps from 29 and 30 to set for Alarm 2 the same conditions as for Alarm 1.

Step 32. Configuration of Display Color Selection
Press until the Color Display Color Selection Menu appears on the Display. Configure as °C °F (red), °C °F (amber). Please refer to the operator’s manual if needed.

Step 33. Run a Test
Press until reset the controller and return to RUN Mode to display °C (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 value °F and ALZ will turn on, and Display Color will change from Green to Amber. Continue touching the tip to raise the temperature above the Alarm 1 value °F and Display Color will change from Amber to Red.
This Quick Start Reference provides information on setting up your instrument for basic operation. The latest complete Configuration 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 EN 61010-1:2001, electrical safety requirements for electrical equipment for measurement, control and laboratory. 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.

Always disconnect power before changing signal and power connections. The second push on the button will reset the instrument except after the setpoint and the alarms, that will go to the RUN Mode without resetting the instrument. The button will always sequence the instrument thru the menu items.

**WIRING**

Wire the instrument according to the figure shown below.

**CAUTION:**

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 injury!

**FLOW CHART**

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

**Panel Mounting Instruction**

1. Using the dimensions from the panel cutout diagram shown above, cut an opening in the panel.
2. Remove sleeve from the rear of the case by removing thumbs.
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 thumbs to hold the unit firmly in the panel.

**Disassembly Instruction:**

If necessary, the board assembly may be removed from the front of the case housing.

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

1. Remove the board assembly from the case by pulling at the sides of the bezel.
2. The bezel along with the board assembly will un latch from the case housing.

**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 injury!

**CONFIGURATION**

**MENU Mode:**

- Flashing display in MENU Mode means you can make your selection by pressing button. If the flashing display is not a four digit value, pressing button will always direct the instrument one step backward from the top menu item. The second push on the button will reset the instrument except after the setpoint and the alarms, that will go to the RUN Mode without resetting the instrument. The button will always sequence the instrument thru the menu items.

- The button has two functions:
  1. To save a selected flashing display
  2. To direct the instrument to the next submenu level

**RUN Mode:**

- causes the display to flash the PEAK with the corresponding value. Press again to go back to RUN Mode.
- causes the display to flash VALLEY with the corresponding value. Press again to go back to RUN Mode.
- causes flashing PEAK or VALLEY to reset corresponding values. Press one more time to go back to RUN Mode.

**FLOW CHART**

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

**Panel Mounting Instruction**

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