Step 11. Enter to 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 dJ R S B 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 Flashing 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 the 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 Press  to select .

Step 18. Store selected 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 the Temperature Unit.

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

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

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 to Filter Constant Submenu Display shows the 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 flashing Filter Constants .

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

Step 27. Enter Alarm 1 Menu Press  until the Alarm 1 Menu appears on the Display. In the following steps we are going to Disable Latch, Active Above Deadband 0.00, and above Setpoint 1 Value will activate Alarm 1.

Step 28. Select Latch Type Submenu Press  to display flashing . If flashing is displayed, press  until is displayed, then press  to store and go to the next menu item.

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

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

Step 31. Enter the Alarm 2 Menu The display will show the top menu for Alarm 2. 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 Display Color Selection menu appears on the Display. Configure either CLR (red), (green), (blue), or (amber). Please refer to the operator’s manual if needed.

Step 33. Configuration of Display Color Selection Press  until the Display Color Selection menu appears on the Display. Configure CLR (red), (green), (blue), or (amber). Please refer to the operator’s manual if needed.

Step 34. Run a Test Press  if previously the controller and return to Mode to display (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, and AL2 will turn on, and Display Color will change from Green to Yellow. Continue touching the tip to raise the temperature above the Alarm 1 High value and Display Color will change from Amber to Red. Annunciator “1” is turning on and off displaying output 1.

Step 35. Configuration of Display Color Selection Press  until the Display Color Selection menu appears on the Display. Configure CLR (red), (green), (blue), or (amber). Please refer to the operator’s manual if needed.

Step 36. Enter the Filter Constant Submenu Press  until the Filter Constant Submenu appears on the Display. Configure CLR (red), (green), (blue), or (amber). Please refer to the operator’s manual if needed.

Therefore, these products are not designed for use in, and should not be used for, patient-monitoring applications. WARNING: These products are not designed for use in, and should not be used for, patient-monitoring applications.

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Specifications:

- 0.1°C/°C Max. resolution.
- 0.05°C/°C typical resolution.
- 0°C to 10°C to 20°C (77°F) 50 ppm/°C resolution.

Display:

- 4-digit, 7-segment LED, 101.6 mm (4”) high.
- With hall, press and enter physically via push buttons.

Input Types:

- Thermocouple, RTD, Analog Voltage and Current

Input/Reading Submenus:

1. MICROVIT USB/RS-232/RS-485 or
2. CLR
3. RED
4. GREEN
5. BLUE

Press until the CLR menu is displayed.

Input Units:

- 2-, 3-, or 4-wire; 0.00385 or 0.00392 curve
- 0 to 20 mA (4 to 20 mA)
- 100/500/1000 ohm Pt sensor
- 0.04°C/°C J, K, T, E, R, S, B, C, N, L

Accuracy:

- 0.1°C/°C ramp.
- 0.05°C/°C ramp.

Linear to 20°C (77°F) 50 ppm/°C overall accuracy.

Press  to show the INPUT SUBMENUS.

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For immediate technical or application assistance please call:

TEL: (714) 540-4914 • FAX: (203) 968-7311

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

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### MOUNTING

**Mounting Big Display Through Panel:**

1. Using the panel cutout diagram shown, 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 seats 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. Mark the location of mounting screws on the flat surface.
2. Remove six screws at the back of the display and back cover.
3. Remove the Big Display from the bail, unscrew the two knobs at each end of the mounting brackets.
4. To remove the Big Display from the bail, unscrew the two knobs at each end of the mounting brackets.

**Disassembly Instruction:**

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

1. Remove all wiring connections from the rear of the instrument, by unscrewing the power and input connectors.
2. Remove six screws at the back of the display and back cover.
3. Remove the Big Display from the panel.
4. To remove the Big Display from the bail, 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!

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### FLOW CHART

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

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### 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 of 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. Pressing twice will cause the display to flash and put the instrument into standby, which disables all outputs and alarms. Press one more time to go back to RUN Mode.

**Step 1.** Apply Power to the Instrument

**Step 2.** Enter Setpoint 1 Menu

**Step 3.** Enter the Setpoint 1 Value Submenu

**Step 4.** Change the Setpoint 1 Value

**Step 5.** Store the Setpoint 1 Value

**Step 6.** Enter to the submenu items of Input Menu

**Step 7.** Enter to the Thermocouple Input Submenu

**Step 8.** Enter to the Thermocouple Input Submenu

**Step 9.** Enter to the Thermocouple Input Submenu

**Step 10.** Enter to the Thermocouple Input Submenu

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**Flow Chart**

ONLY IF UNIT DOES NOT HAVE 52, 53 OR 54 ANALOG OPTION.

**Flow Chart**

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**OPERATION - (For Thermocouple Input)**

**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

**Step 3.** Enter the Setpoint 1 Value Submenu

**Step 4.** Change the Setpoint 1 Value

**Step 5.** Store the Setpoint 1 Value

**Step 6.** Enter to the submenu items of Input Menu

**Step 7.** Enter to the Thermocouple Input Submenu

**Step 8.** Enter to the Thermocouple Input Submenu

**Step 9.** Enter to the Thermocouple Input Submenu

**Step 10.** Enter to the Thermocouple Input Submenu

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**Underline denotes factory default setup**