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/ALUMEGA) J K T E DIN J R S B C - TC types J K T E DIN J 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 the 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 DEG 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.DECIMAL POINT position.
Step 18. Store selected Decimal Point
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 selected and the instrument will go automatically to the next menu item.
Step 23. Enter the Filter Constant Submenu
Display shows s 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 0.0001, 0.0002, 0.0005, 0.001, 0.002, 0.005, 0.01 and 0.02.
Step 26. Store the Filter Constant
Press  momentarily to store Filter Constant and the instrument will go to the next menu item.
Step 27. Enter Alarm 1 Menu
The display will show 00100 Alarm 1 Menu.
Step 28. Enter Alarm 1 Enable/Disable Submenu
Press  to display flashing + and -.
Step 29. Enable Alarm 1 Submenu
If flashing  is displayed, press  if  is displayed, press  until is displayed, then press  to store and go to the next menu item.
Step 30. Select the Deviation Control Type Submenu
Press  if flashing  in Deviation is displayed, otherwise press  until flashing  is shown. Now press  to store and go to next menu item.
Step 31. Select the Latched Type Submenu
Press  if flashing  Unlatched is displayed. If otherwise press  until is displayed, press  to store and advance to next menu item.
Step 32. Select the Normally Open Type of Contact Closure Submenu
Press  if flashing  Normally Open is displayed, otherwise press  until is displayed. Press  to store and advance to next menu item.
Step 33. Select the Above Type of Active Submenu
Press  if flashing  Above is displayed, press  otherwise press  until is displayed. Press  to store and advance to next menu item.
Step 34. Enable Alarm 1 at Power On
Press  if flashing  is displayed, press  otherwise press  until is displayed. Press  to store and advance to next menu item.
Step 35. Enter Alarm 1 High Submenu
Press  twice to skip Alarm 1 Low value. is for below & for above.
Step 36. Set the Alarm 1 High value
Press  until to set the display to 0. Press  to save.
Step 37. Enter the Alarm 2 Menu
The display will show 00200 Alarm 2 Menu.
Step 38. Enter Alarm 2 Enable/Disable Submenu
Press  to display flashing + and -.
Step 39. Enable Alarm 2 Submenu
If flashing  is displayed, press  if  is displayed, press  until is displayed, then press  to store and go to the next menu item.
Step 40. Select the Deviation Control Type Submenu
Press  if flashing  in Deviation is displayed, otherwise press  until flashing  is shown. Now press  to store and go to next menu item.
Step 41. Select the Latched Type Submenu
Press  if flashing  Unlatched is displayed. If otherwise press  until is displayed, press  to store and advance to next menu item.
Step 42. Select the Normally Open Type of Contact Closure Submenu
Press  if flashing  Normally Open is displayed, otherwise press  until is displayed. Press  to store and advance to next menu item.
Step 43. Select the Above Type of Active Submenu
Press  if flashing  Above is displayed, press  otherwise press  until is displayed. Press  to store and advance to next menu item.
Step 44. Enable Alarm 1 at Power On
Press  if flashing  is displayed, press  otherwise press  until is displayed. Press  to store and advance to next menu item.
Step 45. Set the Alarm 1 High value
Press  until to set the display to 0. Press  to save.
Step 46. Set the Alarm 2 High value
Press  until to set the display to 0. Press  to save.

SPECIFICATION
Accuracy: ±0.3% fs. typical
Repeatability: 1°/10 µf/s process
Temperature Stability: 0.0°C/1°C (RTD)
0.0°C/1°C to 75°C (±7°F)/50 °C or polarization
Display: 4-digit, 5-segment LED,
21 mm (0.87) with red, green and amber-programmable colors
Input Types: Thermocouple, RTD, Analog Voltage and Current
Accuracy:
T Type: ±0.03% rdg. process typical
100/500/1000 ohmPt sensor
2 4/0.0395 or 0.03935 curve
Voltage: 0 to 100 mV, 0 to 1 V, 0 to 10 Vdc
Combination: 0 to 20 mA (± 20 ma)
Power: 90 - 240 Vac ±10%, 50 - 400 Hz*,
for Single Display;
5W
for Dual Display
Dimensions: 48 x 91 x 127 D mm
(1.89 x 3.58 x 5.00")
Weight: 295 g (0.65 lb)
Approvals: FM, UL, C-UL, CE per EN 61010-1:2001

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

This device is marked with the international caution symbol. It is important to read the product label and consider the intended location of the device, especially when connected to equipment such as infusion pumps or patient monitoring equipment. Failures or malfunctions could lead to serious injury to the patient. The patient’s safety device, which is intended to minimize harm to the patient, is not intended to replace the operator’s manual and the operator’s manual should be consulted prior to use. The operator is responsible for patient safety devices intended to minimize harm to the patient.

RETURN REQUEST/INQUIRIES
Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by the Technical Support Department and determination of cause, an appropriate credit will be issued. Components which wear are not warranted, including but not limited to contact points, fuses, and triacs.

LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive, and the total liability of NEWPORT with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall be limited to the repair, replacement or refund of the Product(s) or the purchase price paid therefor. In no event shall NEWPORT be liable for consequential, incidental or special damages.

Portability: The information contained in this document is believed to be correct, but NEWPORT Electronics, Inc. accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

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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 top of the instrument housing.
- Always disconnect power before changing signal and power connections.
- Do not use this instrument on a workbench 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.
- 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.

EMC:
- Do not use this instrument on a workbench 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.

CONNECTIONS:
- FUSE 1: Output 1 - Relay 3 A(T) 3 A(T) -
- FUSE 2: Output 2 - Relay 3 A(T) 3 A(T) -
- FUSE 3: Power - N/A 100 mA(T) 100 mA(T) 100 mA(T)
- FUSE 4: Power - N/A N/A N/A 400 mA(T)

Configuration Menu:
- FLASH: The display will show the menu for Flash PEAK or VALLEY.
- ENTER: The display will show the menu for the previous item.

F.3.2.5: Set the device to the previous menu item without resetting the device.

Wiring:
- Wire the instrument according to the figure shown below.

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 thumb nuts.
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. Slip the sleeve over the rear of the case.
5. Tighten the thumb nuts to hold the unit firmly in the panel.

Output 1 and 2 are for -AL Limit Alarm Option only.

Underline denotes factory default setup.