Below is a flowchart showing how to navigate through all top level menus by pressing the 
and buttons.

Underline denotes factory default setup

---

FLOW CHART

---

RETURN REQUEST/INQUIRIES

---

INPUT MENU SETUP

(Operation example)

Below is a flowchart showing how to navigate through the submenus of Input menu by pressing the front buttons.

---

DISPLAY COLOR SETUP (examples)

Example 1:
Output 1 & Alarm 2: SSR
Alarm setup: Absolute, Above, Alarm 2 HI Value
ALR.H = 200, Alarm 1 HI Value, "ALR.H"=400
Color Display setup: Normal Color, "1 CLR"=Green, Alarm 1 Color, "1 CLR"=Amber, Alarm 2 Color, "2 CLR"=Red

Display color change sequence:
GREEN | RED | AMBER
0 | AL.R.H=200 | AL.1.H=400

Example 2:
Output 1 & Relay, Set Point 1 = 200
Output 1 & Alarm 2, Relay, Set Point 2 = 200
Alarm 1 setup: Deletion, Hi/Low, "ALR.H" = 20
Alarm 2 setup: Deviation, Hi/Low, "ALR.H" = 10, "ALR.L" = 5

Display color change sequence:
AMBER | RED | GREEN | GREEN | RED | AMBER
0 | 180 | 195 | 200 | 210 | 220

SPECIFICATION

Accuracy:
- ±0.05% of reading + 0.05°C temp;
- 0.03% rdg. process typical

Resolution:
- 1°/0.1°; 10 µV process

Temperature Stability:
- 0°C/0°C: RTD, 0.0°C/0°C: TC @ 25°C (77°F);
- 300°C/300°C: process

Input Types:
- Thermocouple, RTD, Analog Voltage and Current

Input Impedance:
- 10 MΩ for 100 mV
- 1 MΩ for 1 or 10 Vdc

Voltage:
- 0 to 100 mV (+50 mV), 0 to 1 V, 0 to 10 Vdc

Current:
- 0 to 20 mA (5 Ω load)

RETURN, FOR

Repair, Return, Repair

RETURN REQUEST/INQUIRIES

---

For immediate technical or application assistance please call:

1-800-639-7678 • www.newportUS.com • e-mail: info@newportUS.com

---

NEWPORTElectronics, Inc. warrants this unit to be free of defects in materials and workmanship for a period of one (1) year from the date of purchase. In addition to NEWPORT's standard warranty period, NEWPORT offers a four (4) additional years of extended warranty at the time of purchase. This warranty is limited to the original owner of the unit only and extends to the original purchase of the unit. The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage.

NEWPORT makes no warranty of merchantability or fitness for a particular purpose with respect to its products. All products are sold ‘as is’ and any implied warranty is hereby expressly disclaimed. In no event shall NEWPORT be liable for consequential, incidental or special damages.

NEWPORT MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

CONDITIONS: Equipment sold by NEWPORT is not intended to be used, nor shall it be used: (1) as a "Basic Life Support" product; (2) as a product to be used in nuclear facilities; or (3) in any other application relating to human or animal life in the absence of a written agreement. If the unit malfunctions, it must be returned to the factory for evaluation. NEWPORT's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by NEWPORT's quality control, Components which wear are not warranted, including but not limited to contact points, fuses, and triacs.

RETURN REQUEST/INQUIRIES

---

It is the policy of NEWPORT to comply with all worldwide safety and EMC/EMI regulations that apply. NEWPORT is constantly pursuing certification of its products to the European New Approach Directives. NEWPORT will add the CE mark to every appropriate device upon certification.

NEWPORT is pleased to offer suggestions on the use of its various products. However, NEWPORT neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products, either written or verbal. NEWPORT warrants only that the parts manufactured by it will be as specified and free of defects.

NEWPORT MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

CONDITIONS: Equipment sold by NEWPORT is not intended to be used, nor shall it be used: (1) as a "Basic Life Support" product; (2) as a product to be used in nuclear facilities; or (3) in any other application relating to human or animal life in the absence of a written agreement. If the unit malfunctions, it must be returned to the factory for evaluation. NEWPORT's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by NEWPORT's quality control, Components which wear are not warranted, including but not limited to contact points, fuses, and triacs.

RETURN REQUEST/INQUIRIES

---

The meter bezel design of NEWPORT ELECTRONICS, INC. is a Trademark of NEWPORT ELECTRONICS, INC.
Panel Mounting Instruction:
1. Using the dimensions from the panel cutout diagram shown above, cut an opening in the panel.
2. 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.
3. Tighten the thumbscrews 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 attempting disassembly.

Connect the main power connections in the figure shown below.

WIRING
Wire the instrument according to the figure shown below.

Panel Mounting:
1. Per the dimensions on the printed circuit board cutout diagram shown above, cut an opening in the panel.
2. Remove sleeve from the rear of the case by removing the gasket seals between the bezel and the front of the panel.
3. Slip the sleeve over the rear of the case housing.

SAFETY CONSIDERATION
This device is marked with the following caution symbol:

The instrument is a panel mount device protected in accordance with EN 61010-1:2001, electrical safety requirements for equipment electrical 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 shielded connections with twisted-pair cables.
- Install ferrite bead(s) on signal wire close to the top of the instrument housing.

CAUTION:
- 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.

Configuration:
Button Functions in Configuration Mode

To enter the Menu, the user must first press Menu button. Use this button to advance/navigate to the next menu item. The user can navigate through all the top level menus by pressing Menu button. While a parameter is being modified, press this button to escape without saving the parameter.

Press the up button to scroll through "flashing" selections. When a numerical value is displayed press this button to increment or decrement the value of a parameter that is currently being modified.

- In the Run Mode pressing causes the display to flash the PEAK value – press again to return to the Run Mode.
- Press the down button to go back to a previous Top Level Menu Item.
- Press this button twice to reset the controller to the Run Mode.
- When a numerical value is flashing (except set point value) press this button to scroll digits from left to right allowing the user to select the desired digit to modify.
- When a set point value is displayed press this button to decrease the set point value that is currently being modified. Holding the button down for approximately 3 seconds will speed up the rate at which the set point value is decremented.
- In the Run Mode press this button to advance the submenus from a Top Level Menu Item.
- Press this button to store a submenu selection or after entering a value – the display will flash a message to confirm your selection.
- Press this button to reset the Run Mode. In the Run Mode, press ENTER twice to enable Standby Mode with flashing - press again to return to the Run Mode.

Reset. Except for Alarms, modifying any settings of the menu configuration will reset the controller prior to resuming Run Mode.