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

**SPECIFICATION**

- **Accuracy:** 0.03% rdg.
- **Resolution:** 10/1 µV process
- **Linearization Points:** 10 points
- **Temperature Stability:** 50 ppm/°C process

**Display:**
- 4-digit, 7-segment LED, 101.6mm (4.00")
- -20 to 60°C

**Relative Humidity:**
- 0 to 95%

**Protection:**
- NEMA-4x (IP65)

**Analog Voltage and Current**

- **Voltage:**
  - 0 to 100 mV
  - 0 to 1 V (+100 mV)
  - 0 to 10 V

- **Current:**
  - 0 to 20 mA (5 Ω load)

**Output 1:**
- 250 Vac @ 3 A Resistive Load, SSR, Pulse

**Options:**
- Communication:
  - RS-232 / RS-485
  - Excitation Voltage (400mA, 5.0V)

**Power Supply:**
- 100-240 Vac 50/60 Hz, 22.5 W

**Operating Temperature:**
- 0 to 40°C

**Storage Temperature:**
- -20 to 60°C

**Weight:**
- 2.465 lbs (1.11 kg)

**Approvals:**
- CE EN50081-1, EN50082-2, EN61010-1

**APPLICATION SETUPS**

**Reading Configuration Setup**

**Example 1:**
- Output 1 & Output 2: SSR

**Alarm setup:**
- Absolute, Alarm 2 Hi Value

**Color Display setup:**
- Normal Color, "N.CLR" = Green, Alarm 1 Color "1.CLR" = Amber, Alarm 2 Color "2.CLR" = Red

**Example 2:**
- Output 1: Relay, Set Point 1 = 200
- Output 2: Relay, Set Point 2 = 20

**Alarm 1 setup:**
- Deviation, Hi/Low, "ALR.H" = 20

**Alarm 2 setup:**
- Deviation, Hi/Low, "ALR.H" = 10, "ALR.L" = 5

**Color Display setup:**
- "N.CLR" = Green, "1.CLR" = Amber, "2.CLR" = Red

**UNDERLINE**

- Denotes factory default setup

**WARNING:**

- These products are designed for use in indoor environments and should not be used in environmentally controlled areas.

**ISO 9001 Certified**

**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 in accordance with its instructions, whether verbal or written. **NEWPORT** warrants only that the parts manufactured by it will be as specified and free of defects.

**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.**

**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 any other theory, shall not exceed the purchase price paid for the product on which liability is based. In no event shall **NEWPORT** be liable for consequential, incidental or special damages. **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.
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, so 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. Mark the location of mounting screws on the flat surface.
2. Be sure to leave enough room around the bail to allow for removal and rotation of the display.
3. The display can be rotated for the best viewing angle.

**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 wires connected with twisted-pair cables.
- Install Ferrite Bead(s) on signal wire close to the instrument if EMC problems persist.

**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 two knobs at each end of the mounting brackets.
3. Remove the Big Display from the panel.
4. To remove Big Display from the bail, unscrew the two knobs at each end of the mounting brackets.

**WIRING**
Wire the instrument according to the figure shown below.

**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!

**CONFIGURATION**

**MENU Mode**
- Flashing display in MENU Mode means you can make your own selection of buttons. If the flashing display is not a four digit value, pressing the 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. This will also occur if EMC problems persist.

**Button Functions in Configuration Mode**

**Connecting the Main Power Connections as shown in the figure below.**

**DISPLAY ABBREVIATIONS**

| SP1 | Set Point 1 Value |
| SP2 | Set Point 2 Value |
| CNFG | Configuration Menu |
| INPT | Input Type (Range) |
| VOLT | Voltage Output |
| VOL | Voltage Value |
| OUT | Output Value |
| ALRT | Alarm Low Value |
| LMT | Limit Low |
| HLT | Limit High |
| LOOP | Loop Break Time |
| RAMP | Ramp Time |
| DRT | Damp Factor |
| SOAK | Soak Time |
| CH.ID | Change ID Code |
| FULL | Full ID |
| SPD | Set Point ID |
| COM | Communication Option |
| COLR | Color Selection |
| DISP | Display Color |
| ERR | Error Code |

* For abbreviations of Communication Option see Communication Manual.