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

Underline denotes factory default setup

FLOW CHART

---

**SPECIFICATION**

**Accuracy:**
0.05% rdg.  

**Resolution:**
10 / 1 µV process

**Linearization Points:**
10 points

**Temperature Stability:**
50 ppm /°C process

**Display:**
4-digit, 8-segment LED

**Temperature and Current**
0 to 10 Vdc @ 100 mV, 0 to 10 Vdc @ 10 mV

**Input Impedance:**
10 MΩ for 100 mV, 1 MΩ for 10 Vdc

**Current:**
0 to 20 mA (5 V load)

**Options:**
- Communication
  - RS-232/485 or RS232/485
  - Ethernet: 5 Vdc / 40 mA, 10 Vdc / 60 mA

**Line Voltage/Power:**
30 - 480 VAC, 100 - 450 VAC, 110 - 375 VAC, 480 VAC for single display

**Display colors change sequences:**

**GREEN | RED | AMBER**

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

  **Display colors change sequences:**
  - **GREEN | RED | AMBER**
  - 0: AL2.H = 200, AL1.H = 400

- **Example 2:**
  - Output 1: Relay, Set Point 1 = 200
  - Output 2: Relay, Set Point 2 = 200
  - Alarm 1 setup: Deviation, "ALR.H" = 20
  - Alarm 2 setup: Deviation, HiLow, "ALR.H" = 10, "ALR.L" = 5
  - Color Display setup: "N.CLR" = Green, "1.CLR" = Amber, "2.CLR" = Red

  **Display colors change sequences:**
  - **AMBER | RED | GREEN | GREEN | RED | AMBER**
  - 0: 180 195 200 210 220

---

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

---

**NEWPORT's policy is to make running changes, not model changes, whenever an improvement is possible. This document may not be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine-readable form, in whole or in part, without the prior written consent of NEWPORTElectronics, Inc.**

---

**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 ... upon which liability is based. In no event shall NEWPORT be liable for consequential, incidental or special damages.
Disassembly Instruction:
If necessary, the unit may be removed from the panel and opened.

1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
2. Remove both thumbs and set aside.
3. Remove the sleeve and set aside.
4. Remove the meter from the panel and bend the side panel detents to the case outward to release the board. Pull the board assembly out of the case.

WARNING: Disconnect all ac power from the unit before proceeding.

Connecting the main power connections in the figure shown below.

WARNING: Do not exceed voltage rating on the label located on the top of the instrument housing.

• Do not expose this instrument to rain or moisture.
• 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 expose this instrument to flammable or explosive atmospheres.

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 thumbnuts.
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 thumbnuts to hold the unit firmly in the panel.

Disassembly Instruction:
If necessary, the unit may be removed from the panel and opened.

1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
2. Remove both thumbs and set aside.
3. Remove the sleeve and set aside.
4. Remove the meter from the panel and bend the side panel detents to the case outward to release the board. Pull the board assembly out of the case.

WARNING: Disconnect all ac power from the unit before proceeding.

1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
2. Remove both thumbs and set aside.
3. Remove the sleeve and set aside.
4. Remove the meter from the panel and bend the side panel detents to the case outward to release the board. Pull the board assembly out of the case.

WARNING: Disconnect all ac power from the unit before proceeding.

1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
2. Remove both thumbs and set aside.
3. Remove the sleeve and set aside.
4. Remove the meter from the panel and bend the side panel detents to the case outward to release the board. Pull the board assembly out of the case.

WARNING: Disconnect all ac power from the unit before proceeding.

1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
2. Remove both thumbs and set aside.
3. Remove the sleeve and set aside.
4. Remove the meter from the panel and bend the side panel detents to the case outward to release the board. Pull the board assembly out of the case.

WARNING: Disconnect all ac power from the unit before proceeding.

1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
2. Remove both thumbs and set aside.
3. Remove the sleeve and set aside.
4. Remove the meter from the panel and bend the side panel detents to the case outward to release the board. Pull the board assembly out of the case.

WARNING: Disconnect all ac power from the unit before proceeding.

1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
2. Remove both thumbs and set aside.
3. Remove the sleeve and set aside.
4. Remove the meter from the panel and bend the side panel detents to the case outward to release the board. Pull the board assembly out of the case.

WARNING: Disconnect all ac power from the unit before proceeding.

1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
2. Remove both thumbs and set aside.
3. Remove the sleeve and set aside.
4. Remove the meter from the panel and bend the side panel detents to the case outward to release the board. Pull the board assembly out of the case.

WARNING: Disconnect all ac power from the unit before proceeding.

1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
2. Remove both thumbs and set aside.
3. Remove the sleeve and set aside.
4. Remove the meter from the panel and bend the side panel detents to the case outward to release the board. Pull the board assembly out of the case.

WARNING: Disconnect all ac power from the unit before proceeding.

1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
2. Remove both thumbs and set aside.
3. Remove the sleeve and set aside.
4. Remove the meter from the panel and bend the side panel detents to the case outward to release the board. Pull the board assembly out of the case.

WARNING: Disconnect all ac power from the unit before proceeding.

1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
2. Remove both thumbs and set aside.
3. Remove the sleeve and set aside.
4. Remove the meter from the panel and bend the side panel detents to the case outward to release the board. Pull the board assembly out of the case.

WARNING: Disconnect all ac power from the unit before proceeding.

1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
2. Remove both thumbs and set aside.
3. Remove the sleeve and set aside.
4. Remove the meter from the panel and bend the side panel detents to the case outward to release the board. Pull the board assembly out of the case.

WARNING: Disconnect all ac power from the unit before proceeding.

1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
2. Remove both thumbs and set aside.
3. Remove the sleeve and set aside.
4. Remove the meter from the panel and bend the side panel detents to the case outward to release the board. Pull the board assembly out of the case.

WARNING: Disconnect all ac power from the unit before proceeding.

1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
2. Remove both thumbs and set aside.
3. Remove the sleeve and set aside.
4. Remove the meter from the panel and bend the side panel detents to the case outward to release the board. Pull the board assembly out of the case.