Below is a flowchart showing how to navigate through all top level menus by pressing the **green** and **red** buttons. Underline denotes factory default setup.

**SPECIFICATION**

**Accuracy:**
- 0.05% typ.

**Resolution:**
- 10"/1"/0.1 process

**Linearization Points:**
- 10 points

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

**Display:**
- 4-digit, 7-segment LED, 10.2 mm (0.40") with red, green and amber programmable colors

**Input Types:**
- Analog Voltage and Current

**Voltage:**
- 0 to 100 mV
- 0 to 1 V (±100 mV)
- 0 to 10 V
- 10 MD for 100 mV
- 1 MD or 1 V load

**Current:**
- 0 to 20 mA (5 Ω load)
- 0 to 20 mA (50 Ω load)
- 4-20 mA (100 Ω load)

**Excitation:**
- 5 Vdc @ 40 mA, 10 Vdc @ 60 mA, 20 Vdc @ 80 mA
- 50 ppm/°C process

**Low Voltage Power Option:**
- 12-24 Vdc, 4 W for single display
- 20-36 Vdc, 4W** for dual display

**Line Voltage/Power:**
- 110-375 Vdc, 4W
- 0 to 100 mV, 3W
- 0 to 10 Vdc, 5W

**Temperature Stability:**
- 10 Vdc over temperature

**Linearization Points:**
- 50 ppm/°C process

**Alarm:**
- Alarm 1 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

**SETUP GUIDE:**
- Setup Guide before installing or commissioning this device, as the guide contains important information relating to safety and EMC.

**WARNING:**
- These products are not designed for use in air, and should not be used for any medical or life support applications.

**TRADEMARK NOTICE:**
- NEWPORT is a registered trademark of NEWPORT Electronics, Inc.

**WARRANTY DISCLAIMER:**
- NEWPORT Electronics, Inc. warrants this unit to be free of defects in materials and workmanship for a period of **one (1) year**.

**DIRECT ALL WARRANTY AND REPAIR REQUESTS/INQUIRIES TO THE NEWPORT CUSTOMER SERVICE DEPARTMENT.**

**CONSTRUCTION:**
- NEWPORT is a registered trademark of NEWPORT Electronics, Inc.

**PRODUCT INFORMATION: UNIT SPECIFICATIONS:**
- Dimensions: 48 H x 48 W x 127 D mm (1.89 x 1.89 x 5")
- Weight: 159 g (0.35 lb)
- Voltage: 5V
- **No CE compliance above 60 Hz**
- **No Certification for CE/UL is claimed.**

**ISO 9001 Certified**

**EXPRESSION OF LIMITATIONS:**
- NEWPORT makes no express or implied warranties, including any warranty of merchantability or fitness for a particular purpose, of the Product, except that of title. NEWPORT is not responsible for any loss of profit, loss of use, or any other indirect or incidental damages arising out of the use of the Product, whether based on contract, warranty, tort or any other legal theory.

**LIMITATION OF LIABILITY:**
- NEWPORT will not be liable for any indirect, incidental, special or consequential damages, including lost profits, arising out of or in connection with the use of the Product in any way.

**RETURN REQUEST/INQUIRIES:**
- NO RETURN FOR NON-WARRANTY EQUIPMENT

**RETURN REQUEST/INQUIRIES:**
- Offered repairs may not include all worldwide safety and EMC regulations, and NEWPORT does not accept return products. NEWPORT is not responsible for claims for products to the European New Approach Directives. NEWPORT also sells and the CE mark to every appropriate device upon certification.

**NEWPORT ELECTRONICS, INC.**
- Process / Strain Gauge Monitor / Limit Alarm (-AL)

**SERVICE CALLS:**
- Direct all warranty and repair requests/inquiries to the NEWPORT Customer Service Department. BEFORE contacting NEWPORT: Have the following information available:

**PRODUCT INFORMATION:**
- NEWPORT Electronics, Inc. will extend the warranty period for if the warranty card enclosed with each product was PURCHASED, COST the repair.

**NEWPORT ELECTRONICS, INC.**
- NEWPORT is a registered trademark of NEWPORT Electronics, Inc.

**PRODUCT INFORMATION:**
- NEWPORT Electronics, Inc. reserves the right to alter specifications without notice.

**NEWPORT ELECTRONICS, INC.**
- 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 ELECTRONICS, INC.**
- NEWPORT is a registered trademark of NEWPORT Electronics, Inc.

**PRODUCT INFORMATION:**
- NEWPORT Electronics, Inc. reserves the right to alter specifications without notice.

**NEWPORT ELECTRONICS, INC.**
- NEWPORT is a registered trademark of NEWPORT Electronics, Inc.
Disassembly Instruction:
If necessary, the unit may be removed from the panel and opened.

1. Remove all wiring connections from the rear of the meter. To remove power and input connectors squeeze top and bottom of the case near the connector site for release, then pull from the meter.
2. To remove meter from the case, squeeze top and bottom of the bezel to release, then pull from case.

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

WIRING
Wire the instrument according to the figure shown below.

1. Open the bezel to release, then pull from case.
2. If instrument has the communication option, the internal excitation is not available. Use external excitation to power your transducer.

Configuration

**Function Buttons in Configuration Mode**

- **MENU**
  - To enter the Menu, the user must first press **b**.
  - Use this button to access the current menu selection or after entering a value — the display will flash the PEAK or GROSS value — press again to return to the Run Mode.

- **C.PAR**
  - Press this button twice to enable commands for Modbus Protocol.

- **D.EV**
  - In the Run Mode, press **c** twice to enable/ disable the display.

- **STBY**
  - The display will not return to the Run Mode until the menu configuration is saved.

- **CAR**
  - Hold the **d** button down for approximately 3 seconds will speed up the rate at which the setpoint value is decremented.

- **Rd**
  - Press **c** button down for approximately 3 seconds will speed up the rate at which the setpoint value is decremented.

- **FL**
  - Press **d** button twice to enable Display Color Selection.

- **Rd**
  - Hold the **d** button down for approximately 3 seconds will speed up the rate at which the setpoint value is decremented.

- **Ca**
  - Causes the display to change, and the display will flash the PEAK or GROSS value — press again to return to the Run Mode.

- **C.R**
  - Hold the **d** button down for approximately 3 seconds will speed up the rate at which the setpoint value is decremented.

- **Rd**
  - Hold the **d** button down for approximately 3 seconds will speed up the rate at which the setpoint value is decremented.

- **Carriage Return**
  - Press the **c** button to store a submenu selection or after entering a value — the display will flash a message to confirm your selection.

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

---

**Display Connections**

- **TOP VIEW**
  - If instrument has the communication option, the internal excitation is not available. Use external excitation to power your transducer.

- **DUAL DISPLAY**
  - If instrument has the communication option, the internal excitation is not available. Use external excitation to power your transducer.

- **SINGLE DISPLAY**
  - If instrument has the communication option, the internal excitation is not available. Use external excitation to power your transducer.

- **RACE VIEW**
  - If instrument has the communication option, the internal excitation is not available. Use external excitation to power your transducer.

- **FRONT VIEW**
  - If instrument has the communication option, the internal excitation is not available. Use external excitation to power your transducer.

- **MOUNTING**
  - If instrument has the communication option, the internal excitation is not available. Use external excitation to power your transducer.

- **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. Slide the retainer over the rear of the case and tighten against the backside of the panel.

---

**MOUNTING**

- 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. Slide the retainer over the rear of the case and tighten against the backside of the panel.

---

**SAFETY CONSIDERATION**

- This device is marked with the international Caution symbol.

- The instrument is a panel mount device protected in accordance with EN61010-1:2001. 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 operate this instrument on a work bench without its case for safety reasons.
  - 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 signal wire connections with twisted-pair cables.
  - Install Ferrite Bead(s) on signal wire close to the instrument if EMC problems persist.

- **Warning:**
  - 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 operate this instrument on a work bench without its case for safety reasons.
  - Do not expose this instrument to rain or moisture.

- **WARNING:**
  - Do not connect ac power to your device until you have completed all input and output connections. The device must only be installed by a specially trained electrician with corresponding qualifications. Failure to follow all instructions and warnings may result in injury or death.

- **Display Connections**
  - If instrument has the communication option, the internal excitation is not available. Use external excitation to power your transducer.