## DISPLAY ABBREVIATIONS

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<th>Abbreviation</th>
<th>Description</th>
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<td>Alarm 1 Mode</td>
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<td>A1HI</td>
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<td>A1CR</td>
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<tr>
<td>GRN</td>
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<tr>
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<td>Green Color</td>
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<td>AMG</td>
<td>Amber Color</td>
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<td>OUI</td>
<td>Alarm Latched/Unlatched selection</td>
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<td>LAIC</td>
<td>Latched</td>
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<tr>
<td>MO CR</td>
<td>Display Color in Normal condition</td>
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<td>GRN</td>
<td>Green Color</td>
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<tr>
<td>AMG</td>
<td>Amber Color</td>
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<td>DATA</td>
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<td>Form</td>
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<tr>
<td>8N1</td>
<td>8-bit No parity, 1 stop bit</td>
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<tr>
<td>COMM</td>
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<td>Addr</td>
<td>Device Address</td>
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<td>INF</td>
<td>Interface Device</td>
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<td>DRN with Process Input</td>
</tr>
<tr>
<td>_misc</td>
<td>Miscellaneous</td>
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<td>PEAK</td>
<td>Peak Value</td>
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<td>RUN</td>
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<td>OVLd</td>
<td>Input Overflow</td>
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<td>STOR</td>
<td>Stored Message</td>
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## SPECIFICATION

**Temperature Stability:** 50 ppm/°C

**Display:** 4-digit, 7-segment LED, red, green and amber programmable colors.

**Alarm:** Alarm 1 and 2 programmable, Latched/Unlatched, High, Low, High/Low.

**SERIAL INTERFACE**

- **Communication Standard:** RS-485, RS-422 or RS-232
- **Transfer speed (Baud rate):** 300, 600, 1200, 2400, 4800, 9600, 19200 bps
- **Data Format:** 7E1-7 bit, Odd, 1 stop bit, 7E1- 7 bit, even, 1 stop bit
- **Address Value:** 7O1-7 bit, Odd, 1stop bit, 7E1- 7 bit,
- **Flow Control:** No Flow control

**Dimensions:** 101.6mm (4.00”) with red, green and amber programmable colors.

**Alarm:**
- **Alarm 1 Low Value:** -999.99
- **Alarm 1 High Value:** 9999.99
- **Alarm 2 Low Value:** -999.99
- **Alarm 2 High Value:** 9999.99

**Relative Humidity:** 10-90% RH

**Power Supply:**
- **100-240 Vac ±10%**
- **40-60 Hz, 50W**

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

**Storage Temperature:** -40 to 85°C

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

**Approvals:** CE per EN61010-1:2001

**Warranty:**
- Warranty period for instrument is one (1) year
- Warranty period for device is four (4) additional years when returned to NEWPORT
- Warranty for repairs is one (1) year
- New and refurbished instruments are warranted for one (1) year
- WARRANTY applies to normal operating conditions. New and refurbished instruments are warranted for one (1) year.

**Trademarks:**
- **NEWPORT** is a registered trademark.
- **NEWPORT** is a trademark.

**Flow Control:**
- **Flow Control:** No Flow control

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

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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.

Disassembly Instruction:

- 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 the Big Display from the panel.
   3. To remove the Big Display from the bail, unscrew the two knots at each end of the mounting brackets.

WIRING

   - The RS-232 standard (point-to-point) allows a single device to be connected to the Big Display using a three-wire connection (full duplex).

2. Wiring RS-485 Interface.
   - The RS-485 standard (multipoint) allows a computer, one or more devices and Big Displays (up to 32) to be connected using a two-wire connection (half-duplex) plus a common wire to connect to the shield of the cable. It is recommended to use shielded cable with one twisted pair for EMI noise protection.

OPERATIONS

1. Peak Valley Slip (Display in Host Mode)
   - To request “Peak” value:
     a) RS-232 Mode, will send: *X02 (interface DRNT), or *X03 (interface DRNP)
     b) RS-485 Mode, will send: *01X02 (interface DRNT), or *01X03 (interface DRNP)

2. Valley Value (Display on Host Mode)
   - To request “Valley” value:
     a) RS-232 Mode, will send: *X02 (interface DRNT), or *X04 (interface DRNP)
     b) RS-485 Mode, will send: *01X03 (interface DRNT), or *01X04 (interface DRNP)

3. Process Value (Display on Host Mode)
   - To request process value:
     a) RS-232 Mode, will send: *X01
     b) RS-485 Mode, will send: *01X

4. Write alphanumeric characters to the Big Display from the computer (Display in Slave Mode)
   - a) Single Big Display: (RS232) write 4 characters, then CR ( carriage return)
   - b) Multiple Big Displays: (RS485) write 4 characters, then device address (2 digit), 4 characters, then CR

5. Display Color Setup (Alarm Setup)
   - This menu allows the user to select the color of the display in normal conditions and when an alarm is triggered. If user wants the Display to change color every time when Both Alarm 1 and Alarm 2 are triggered, the alarm will send, “01X01”.

Example 1:

Example 2:

Example 3:

Display colors change sequences:

- AMBER | RED | GREEN

- LO-1 = 100
- LO-2 = 300

- LO-1 = 100
- LO-2 = 150
- Hi-2 = 200
- Hi-2 = 250

CONFIGURATION

Button Functions in Configuration Mode

- To enter the Menu, the user must first press (button. Use this button to advance/ navigate to the next menu item. The user can navigate through all the top level menus by pressing this key.

- While a parameter is being modified, press (button to escape without saving the parameter.

- Press the up (button to scroll through submenu selections. When a numerical value is displayed press this key to increase value of a parameter that is currently being modified.

- In the Run Mode pressing (button causes the display to flash the PEAK value several times before returning to the Run Mode.

- In the top menu press (button causes the display to return to the Run Mode.

- Press the down (button to scroll through submenu selections. When a numerical value is displayed press this key to decrease value of a parameter that is currently being modified.

- In the Run Mode press (button causes the display to flash the Valley value several times before returning to the Run Mode.

- In the top menu press (button causes the display to return to the Run Mode.

- Press this button to access the submenus from a Top Level Menu item.

- Press this button to enter a value – the display will flash a (message to confirm your selection.