**DISPLAY ABBREVIATIONS**

- **ALR1**: Alarm 1 Status
- **ALR2**: Alarm 2 Status
- **AMyr**: Amber Color
- **A2Md**: Alarm 2 Mode
- **A2Lo**: Alarm 2 Low
- **A1Cr**: Display color when Alarm 1 triggered
- **A1Or**: Alarm 1 Latched/Unlatched selection
- **A1H**: Alarm 1 High
- **A1L**: Alarm 1 Low
- **A10**: Alarm 1 set Off
- **A110**: Alarm 1 set On
- **L0-1**: Alarm 1 Low
- **H1-1**: Alarm 1 High
- **GRN**: Green Color
- **AMDr**: Amber Color
- **A2Mr**: Alarm 2 Mode
- **A2Lo**: Alarm 2 Low
- **A20**: Alarm 2 set Off
- **A210**: Alarm 2 set On
- **GRN**: Green Color
- **AMDr**: Amber Color
- **A2Mr**: Alarm 2 Mode
- **A2Lo**: Alarm 2 Low
- **A20**: Alarm 2 set Off
- **A210**: Alarm 2 set On
- **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: 7-bit, Odd, 1 stop bit, 7E1-7 bit, Even, 1 stop bit
  - Interface Device: Host Mode
  - Host Mode: SLAV
  - Slave Mode: COMM
  - Process Input: PROC
  - Output Load: OVLd
  - Power Supply: 100-240 VAC, 50/60 Hz, 22.5 W
  - Operating Temperature: -20 to 60°C
  - Storage Temperature: -40 to 85°C
  - Relative Humidity: 0 to 95%
  - Protection: NEMA 4x (IP65)
  - Dimensions: 374 L x 137 W x 73 D mm (14.75" x 5.375" x 2.875")
  - Weight: 2.04 kg (4.5 lbs)

**SPECIFICATION**

- Temperature Stability: 50 ppm/°C
- 6-digits, 7-segment LED, 57.2 mm (2.25")
- Alarm 1 & 2 programmable, Latch/Unlock, High, Low, High/Low
- Display color when Alarm 1 triggered
- GRN: Green Color
- AMbR: Amber Color
- Off: OFF
- On: ON

**WARNING:**  This device is marked with the international caution symbol. It is important to read the Setup Guide before installing or commissioning this device, as the guide contains important information relating to safety and EMC.

**TRADEMARK NOTICE:**

NEWPORT is a trademark of Omegadyne, Inc. Used under license.

**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 otherwise, is limited to the amount paid by purchaser for the Product(s) the subject of this order. In no event shall NEWPORT be liable for consequential, incidental or special damages. NEWPORT is not liable for any damages or incidental expenses resulting from the use of the product or for any harms or injuries resulting from the use of the Product(s) or failure to use the Product(s). The user waives any claims-in-law or equitable based upon the user’s negligence or any action taken by user. NEWPORT reserves the right to make changes in the specification of the Product(s) at any time without incurring obligations to incorporate such changes in Products previously shipped.

**TOLL FREE:** 1-800-626-7776 • http://www.newportUS.com • e-mail: info@newportUS.com

**WARRANTY/DISCLAIMER**

NEWPORT Electronics, Incorporated warrants to the original purchaser of the Product(s) that the Product(s) will be free of defects in material and workmanship for a period of one (1) year from the date of purchase. In addition to NEWPORT’s standard warranty period, NEWPORT Electronics will extend the warranty period for four (4) additional years if the instrument is returned to NEWPORT. In the event of any defect or malfunction, the Product(s) must be returned to NEWPORT Electronics, Incorporated at the cost of the original purchaser and must be accompanied by written proof of purchase and a description of the suspected defect or malfunction. NEWPORT Electronics, Incorporated reserves the right to inspect the Product(s) and determine whether the defect or malfunction is covered by this warranty. If the defect or malfunction is covered by this warranty, NEWPORT Electronics, Incorporated will repair or replace the Product(s) at its discretion. This warranty is in lieu of all other warranties, express or implied. NEWPORT Electronics, Incorporated disclaims all other warranties, express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. NEWPORT Electronics, Incorporated shall not be liable for any incidental, special, or consequential damages, including but not limited to lost profits or lost savings, that result from the use of or inability to use the Product(s). NEWPORT Electronics, Incorporated shall not be liable for any damages or any loss or injury resulting from the use of the Product(s), or failure to use the Product(s), or any claim by any third party. NEWPORT Electronics, Incorporated shall not be liable for any damages or any loss or injury resulting from the use of any replacement parts, accessories, or any other product not manufactured or supplied by NEWPORT Electronics, Incorporated. NEWPORT Electronics, Incorporated shall not be liable for any damages or any loss or injury resulting from the use of the Product(s), or failure to use the Product(s), or any claim by any third party. NEWPORT Electronics, Incorporated shall not be liable for any damages or any loss or injury resulting from the use of any replacement parts, accessories, or any other product not manufactured or supplied by NEWPORT Electronics, Incorporated.
Mounting Big Display on Bail:

1. Use the big display template to mark the location of mounting screws on the flat surface.
2. Be sure to leave enough room around the bail (as noted on the template drawing) 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 six screws at the back of the display and back cover.
3. Remove the Big Display from the panel.
4. To remove the Big Display from the bail, unscrew the two screws at each end of the mounting brackets.

WIRING

The RS-485 standard (point-to-point) allows a single device to be connected to the Big Display using a two-wire connection (full duplex).
2. Wiring RS-485 Interface.
The RS-485 standard (multipoint) allows a computer 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.

Ensure that power connection is made to the Big Display.

4. Process V
Press to request "Process" 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)

5. Display Color Setup (Alarm Setup)
This menu allows the user to select the color of the display in normal conditions and when alarm is triggered. If user wants the Display to change color every time when both Alarm 1 and Alarm 2 are triggered, the Alarm values should be set in such a way that Alarm 1 is always on the top of Alarm 2 value, otherwise value of the Alarm 1 will overwrite value of Alarm 2 and Display color would not change when Alarm 2 is triggered.

Example 1:
Alarm 1 setup: "ON", Alarm Mode High "A1H", Alarm High Value "HI-1<100", Alarm Color "ACR"=Amber
Normal Color: No CR=Green
Display colors change sequences:

Example 2:
Alarm 1 setup: "ON", Alarm Mode Low/High "A1LH", Alarm Low Value "LO-1<100", Alarm High Value "HI-1<250", Alarm Color "ACR"=Amber
Normal Color: No CR=Green
Display colors change sequences:

Example 3:
Alarm 1 setup: "ON", Alarm Mode Low/High "A1LH", Alarm Low Value "LO-1<100", Alarm High Value "HI-1<250", Alarm Color "ACR"=Amber
Normal Color: No CR=Green
Display colors change sequences:

Configuration Button Functions in Configuration Mode

- To enter the Menu, the user must first press Menu. Use this button to advance/navigate to the next menu item. The user can navigate through all the top level menus by pressing Menu.
- While a parameter is being modified, press Menu to escape without saving the parameter.
- Press the up Button to scroll through submenus. 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 causes the display to flash the PEAK value several times before returning to the Run Mode.
- In the top menu press causes the display to return to the Run Mode.
- Press the down Button to scroll through submenus. When a numerical value is displayed press this key to decrease value of a parameter that is currently being modified.
- In the Run Mode pressing causes the display to flash the Valve value several times before returning to the Run Mode.
- In the top menu press causes the display to return to the Run Mode.
- Press the enter Button to access the submenus from a Top Menu item.
- Press this button to advance to a subsubmenu selection. When an numerical value is displayed press this key to access the subsubmenu to change the parameter.
- Press this button to advance to a subsubmenu selection. When a numerical value is displayed press this key to access the change the parameter.
- Press this button to advance to a subsubmenu selection. When a numerical value is displayed press this key to access the parameter.
- Press this button to advance to a subsubmenu selection. When a numerical value is displayed press this key to access the parameter.
- Press this button to access a subsubmenumenu.