**DISPLAY ABBREVIATIONS**

- ALR1: Alarm 1 Status
- A1O: Alarm 1 Mode
- A1L: Alarm 1 Low
- A1H: Alarm 1 High
- LO: Alarm 1 Low
- HI: Alarm 1 High
- A1CR: Display color when Alarm 1 triggered
- A1Md: Alarm 1 Mode
- A1LH: Alarm 1 Low/High
- A1LO: Alarm 1 Low
- A1CR: Display color when Alarm 1 triggered
- A1Md: Alarm 1 Mode
- A1LH: Alarm 1 Low/High
- A1LO: Alarm 1 Low
- A2Md: Alarm 2 Mode
- A2L: Alarm 2 Low
- LO-2: Alarm 2 Low
- HI-2: Alarm 2 High
- A2CR: Display color when Alarm 2 triggered
- GRN: Green Color
- AMR: Amber Color
- A2LH: Alarm 2 Low/High
- A2LO: Alarm 2 Low
- A2CR: Display color when Alarm 2 triggered
- GRN: Green Color
- AMR: Amber Color
- A2LH: Alarm 2 Low/High
- A2LO: Alarm 2 Low
- Host Mode
- Slave Mode
- Baud Rate Value
- Data Format
- COMM: Communication Standard
- ADDR: Address
- INFT: Interface Device
- PEAK: Peak Value
- OVLd: Overload

**SPECIFICATION**

**Temperature Stability:**
50 ppm/°C

**Display:**
6-digit, 7-segment LED, 57.2mm (2.25")
Analog, green and amber programmable colors.

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

**POWER SUPPLY:**
50 ppm/°C

**OPERATING TEMPERATURE:**
0 to 40°C

**STORAGE TEMPERATURE:**
-40 to 85°C

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

**PROTECTION:**
NEMA 4x (IP65)

**DIMENSIONS:**
394 L x 175 W x 71 H mm
(15.5" L x 6.75" W x 2.81"

**Panel Cutout:**
374 L x 116.8 W mm
(14.75" L x 4.60"

**WEIGHT:**
2,040 g (4.5 lbs)

**FLOW CONTROL:**
No Flow control

**Screw terminals for:**
RS-485, RS-422 or RS-232

**Display color when Alarm 1 triggered:**
A1CR

**Alarm 2 Low/High:**
A2LH

**Alarm 2 Low Value:**
A2LO

**Alarm 2 High Value:**
A2Md

**Flow Control:**
No Flow control

**Multi-Point Address (RS-455):**
0 to 150

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

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**FLOW CHART:**
Below is a flowchart showing how to navigate through all menus by pressing front buttons.

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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 known screws 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.

Connect the main power connections as shown in the figure below.

OPERATIONS
1. Peak Value (Display in Host Mode)
Press [ ] 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)

   In the examples for RS-485 it is assumed that the device address is 01.

2. Valley Value (Display in Host Mode)
Press [ ] to request “Valley” value:
   a) RS-232 Mode, will send: *X03 (Interface DRNT), or *X04 (Interface DRNP)
   b) RS-485 Mode, will send: *01X03 (Interface DRNT), or *01X04 (Interface DRNP)

3. Process Value (Display in Host Mode)
Press [ ] to request “Process” Value:
   a) RS-232 Mode, will send: *X01
   b) RS-485 Mode, will send: *01X01

4. Write alphanumeric characters to the Big Display from the computer (Display in Slave Mode)
   a) Single Big Display: (RS232) write 4(6) characters, then CR (carriage return)
   b) Multiple Big Display: (RS485) write * device address (2 digit), 4(6) 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 alarm is triggered. If user wants the Display to change color every time when both Alarm 1 and Alarm 2 are triggered, the display will change color in a 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:
Normal Color “NO.CR”=Green

Example 2:
Alarm 1 setup: “ON”, Alarm Mode Low “A1LO”, Alarm Low Value “LO-1=100”
Alarm Color “A1CR”=Amber
Normal Color “NO.CR”=Green

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 “A1CR”=Amber
Normal Color “NO.CR”=Green

Display colors change sequences:

AMBER | RED | GREEN
0 0 0 | 1 0 0 | 0 0 1
0 0 0 | 0 0 1 | 0 0 0
0 0 1 | 0 0 0 | 0 0 0
0 0 1 | 0 0 1 | 0 0 0

AMBER | RED | GREEN
0 0 0 | 0 0 0 | 1 0 0
0 0 0 | 0 0 1 | 0 0 0
0 0 0 | 1 0 0 | 0 0 0
0 0 0 | 1 0 1 | 0 0 0

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 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 [ ] 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 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 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 this button to access the submenus from a Top Level Menu item.

Press this button to store a submenu selection or after entering a value – the display will flash a message to confirm your selection.

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 seats between the bezel and the front of the panel.
4. Align back cover to Big Display and reinstall screws.

Connections to the computer are optional.