Host mode uses Newport product protocols

**Process Value (Display on Host Mode)**

To request a "Process" Value:
- A1: RS-232 Mode, will send: "X01"
- A2: RS-485 Mode, will send: "X01X03"

**ALARM**

Alarm 1 Low Value: -20 to 85°C
Alarm 1 High Value: -999.9 to 999.9
Alarm 1 Baud Rate: 300 to 19200
Alarm 1 Data Format: 7O1:13 (1 stop bit, 7-bit Even, 1 stop bit)
Alarm 2 Low Value: -20 to 85°C
Alarm 2 High Value: -999.9 to 999.9
Alarm 2 Baud Rate: 300 to 19200
Alarm 2 Data Format: 7E1

**Communication Standard**

- RS-232 Standard
- RS-485 Standard
- Device Address (1-4 digits, CR, 4(6) characters, then CR)

**Display Color Setup (Alarm Setup)**

This menu allows the user to select the color of the display in normal condition 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, 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:**

**Example 2:**

**Alarm Color**

- "A1L" (Alarm 1 Low)
- "A1H" (Alarm 1 High)
- "A2L" (Alarm 2 Low)
- "A2H" (Alarm 2 High)
- "A1CR" (Amber Color)
- "A1LR" (Red Color)
- "A2CR" (Amber Color)
- "A2LR" (Red Color)

**Remote Display**

The Remote Display menu allows the user to configure the Remote Display. In Host mode, the Remote Display will wait for commands and display prepared values. In Alarm mode, the Remote Display will display the alarm indication in character format. In both these modes, the Remote Display can be configured to display any character or value.

**Example:**
- **Remote Display Menu**: "ON" (to enable)
- **Remote Display Mode**: "ON" (to enable)
- **Remote Display Address**: 1 (to set)
- **Remote Display Console**: "ON" (to enable)
- **Remote Display Color**: "ON" (to enable)

**Communication Standard**

- RS-232 Standard
- RS-485 Standard
- Device Address (1-4 digits, CR, 4(6) characters, then CR)

**Color Setup (Alarm Setup)**

This menu allows the user to select the color of the display in normal condition 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, 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:**

**Example 2:**

**Alarm Color**

- "A1L" (Alarm 1 Low)
- "A1H" (Alarm 1 High)
- "A2L" (Alarm 2 Low)
- "A2H" (Alarm 2 High)
- "A1CR" (Amber Color)
- "A1LR" (Red Color)
- "A2CR" (Amber Color)
- "A2LR" (Red Color)
Mounting Remote Display Through Panel:
1. Using the panel cutout diagram shown above, cut an opening in the panel.
2. Remove two screws at the back of remote display to remove back cover.
3. 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.
4. Align back cover to remote display and reinstall screws.

Mounting Remote Display on Bail:
1. Use the Remote 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 to 12 positions 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 unplugging the power and input connectors.
2. Remove two screws at the back of remote display and back cover.
3. Remove the Remote Display from the panel.
4. To remove the Remote Display from the bail, spread mounting ears.

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

Wiring RS-485 Interface.
The RS-485 standard (half-duplex) allows a computer, one or more devices and Remote 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.

CONFIGURATION

Button Functions in Configuration Mode
• To enter the Menu, the user must first press (MENU) button. Use this button to advance/navigate to the next menu selection. When a numerical value is displayed press this key to increase value of a parameter that is currently being modified.
• Press this button to access the submenus from a Top Level Menu item. The user can navigate through all the top level menus by pressing (UP).
• Press the up (UP) 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 (DOWN) causes the display to return to the Run Mode.
• In the top menu press (ENTER) causes the display to return to the Run Mode.
• Press the down (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 (DOWN) causes the display to flash the PEAK value several times before returning to the Run Mode.
• In the top menu press (ENTER) causes the display to return to the Run Mode.
• Press this button to store a submenu selection or after entering a value – the display will flash a message to confirm your selection.

x, y, z, and some punctuations are non-printable characters.

FLOW CHART

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

FLOW CHART _____Underline denotes factory default setup

POWER CONNECTION

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