Host mode uses Newport product protocols

Process Value (Display on Mode Host)

Process Value "LO-1"=100, Alarm High Value "HI-1"=250, Alarm Color "A1CR"=Amber

Process Value "LO-2"=150, Alarm High value "HI-2"=200, Alarm Color "A2CR"=Red

Example 3:

Boot Mode: "ON", Alarm Mode Low/High "A2LH", Alarm Low Value "LO-2"=150, Alarm High value "HI-2"=200, Alarm Color "A2CR"=Red

Display Color Change sequences:

AMBER | RED | GREEN
--- | --- | ---
O-1 = 100 | O-2 = 300

Example 1:


Normal Color: "NO.CR"=Green

Display colors change sequences:

GREEN | RED | AMBER
--- | --- | ---
H-2 = 200 | H-1 = 400

Example 2:


Normal Color: "NO.CR"=Green

Display colors change sequences:

AMBER | RED | GREEN
--- | --- | ---
O-1 = 100 | O-2 = 300

Example 3:


Alarm 2 setup: "ON", Alarm Mode Low/High "A2LH", Alarm Low value "LO-2"=150, Alarm High value "HI-2"=200, Alarm Color "A2CR"=Red

Normal Color: "NO.CR"=Green

Display colors change sequences:

AMBER | RED | GREEN
--- | --- | ---
O-1 = 100 | O-2 = 300

NOTE: Display colors change sequences are run automatically with alarms disabled. ~~~R to turn the display Red.

Alarm 1 Two Mode setup

Alarm 1 Low Value "LO-1"=100, Alarm High value "HI-1"=250, Alarm Color "A1CR"=Amber

Alarm 1 High Value "HI-1"=250, Alarm Color "A1CR"=Amber

Normal Color: "NO.CR"=Green

Display colors change sequences:

AMBER | RED | GREEN
--- | --- | ---
O-1 = 100 | O-2 = 300

Alarm 2 Two Mode setup

Alarm 2 Low Value "LO-2"=150, Alarm High value "HI-2"=200, Alarm Color "A2CR"=Red

Alarm 2 High Value "HI-2"=200, Alarm Color "A2CR"=Red

Normal Color: "NO.CR"=Green

Display colors change sequences:

AMBER | RED | GREEN
--- | --- | ---
O-1 = 100 | O-2 = 300

Example 3:

Boot Mode: "ON", Alarm Mode Low/High "A2LH", Alarm Low Value "LO-2"=150, Alarm High value "HI-2"=200, Alarm Color "A2CR"=Red

Normal Color: "NO.CR"=Green

Display colors change sequences:

AMBER | RED | GREEN
--- | --- | ---
O-1 = 100 | O-2 = 300
RD4 AND RD6 REMOTE DISPLAY

DESCRIPTION:
The RD4 and RD6 are 4(6) digit master/slave displays providing remote readout from instruments such as programmable controllers, digital panel meters and other instruments with serial output. Two communication interfaces are supported in Remote Display: RS-232 and RS-485 and can be programmed through front panel buttons. The RD4/RD6 remote display can be mounted in a 1/8 DIN panel cut-out or surface mounted with the included bale.

Remote Display features big bright 21mm (0.83") and 17.3mm (0.68") 9 segment LED's that can be programmed to change color between Green, Amber, and Red to indicate alarms. Serial Communications can be made to an RJ-11 jack or screw terminals. In Slave mode, the RD4/RD6 can be used for displaying Alphanumeric characters from a computer.

SAFETY:
- The instrument is a panel mount device protected in accordance with EN61010-1:2001.
- This device does not provide safety isolation. Therefore, always use a Safety Agency Approved DC power source.

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 Beads on signal wire close to the instrument if EMC problems persist.

MOUNTING

WIRING

RS-232 Interface:
The RD232 standard (point-to-point) allows a single device to be connected to the Remote Display using a three-wire connection (full duplex).

RS-485 Interface:
The RS-485 standard (multipoint) 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.

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

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 proceeding.
- While a parameter is being modified, press to escape without saving the parameter.
- Press the up (Up) button to scroll through submenus from a Top Level Menu item. Use this button to access the submenus from a Top Level Menu item.
- Press the down (Down) button to scroll through submenus selections. When a numerical value is displayed press this key to increase/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 the down button to scroll through submenus 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 causes the display to flash the Valley 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 ESC 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.

Connections to the computer are optional.