2. Valley Value (Display on Host Mode)
Press the [Peak] key to request “Peak” value.
   a) RS-232 Mode, will send: [X02] (Interface DRNR), or [X03] (Interface DRNP)
   b) RS-485 Mode, will send: [X01] (Interface DRNR), or [X01X0] (Interface DRNP)

3. Process Value (Display on Host Mode)
Press the [Peak] key to request “Process” Value.
   a) RS-232 Mode, will send: [X01]
   b) RS-485 Mode, will send: [X01X00] (Interface DRNR), or [X01X0] (Interface DRNP)

4. Display configuration to the Remote Display
   a) Single Remote Display: (RS232) 4-digit, 7-segment LED, 57.2 mm (2.25"
   b) Multiple Remote Display: (RS485) write *, device address (2 digit), CR, 4-digit 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 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 color does not change when Alarm 2 is triggered.
Example 1:
   Normal Color: “NCR”=Green

Display colors change sequences:
0                   1                   2                   3
GREEN  |  RED  |  AMBER

Example 2:

Display colors change sequences:
0                   1                   2                   3
AMBER  |  RED  |  GREEN

Example 3:

Display colors change sequences:
0                   1                   2                   3
AMBER  |  GREEN  |  RED  |  AMBER

OPERATIONS
1. Peak Value (Display in Host Mode)
Press the [Peak] key to request “Peak” value.
   a) RS-232 Mode, will send: [X02] (Interface DRNR), or [X03] (Interface DRNP)
   b) RS-485 Mode, will send: [X01] (Interface DRNR), or [X01X0] (Interface DRNP)

In the examples for RS-485 it is assumed that the device address is 01.
Mounting Remote 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 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 for the best viewing angle.

Disassembly Instruction:
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 remote display and back cover.
3. To remove the Remote Display from the bail, unscrew the two knobs at each end of the mounting brackets.

FLOW CHART

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

____Underline denotes factory default setup

Device with RS-232
Pin Function
Receive (Rx) 4 (Tx)
Transmit (Tx) 3 (Rx)
Common Ground (COM) 2 (Rx)

LARGE REMOTE DISPLAY
Pin Function
Screw Terminal
Receive (Rx) 3 (Rx)
Transmit (Tx) 4 (Tx)
Common Ground (COM) 5

Connects to the computer are optional.

Computer Card Device with RS-485
Pin Function
A. -Tx/-Rx -Rx 4
B. +Tx/+Rx +Rx 3
COM COM 2

WIRING

   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).

2. Wiring 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.

   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 item. The user can navigate through all the top level menus by pressing (UP).
• Press the up (UP) button to scroll through sub-menu 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 (DOWN) causes the display to flash the PEAK value several times before returning to the Run Mode.
• In the Run Mode pressing (UP) 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 STOR message to confirm your selection.
• Press this button to store a submenu selection or after entering a value – the display will flash a STOR message to confirm your selection.
• Press this button to store a submenu selection or after entering a value – the display will flash a STOR message to confirm your selection.
• Press this button to store a submenu selection or after entering a value – the display will flash a STOR message to confirm your selection.
• Press this button to store a submenu selection or after entering a value – the display will flash a STOR message to confirm your selection.

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

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 Bead(s) on signal wire close to the instrument if EMC problems persist.

SAFETY:
• The instrument is a panel mount device protected in accordance with Class III of IEC 1010.