**SPECIFICATION**

**Temperature Stability:**
- Display: ±480 ppm (37°C, 23°C) with red, green and amber programmable colors.
- Alarm: ±1.5 ppm programmable, Latch/Unlock, High, Low

**Alarm:**
- 1: Low/High
- 2: Low

**Display:**
- Storage Temperature: -999.9 to 9999.9
- Display color when Alarm 1 triggered: Green
- Alarm 2 Status
- Display color when Alarm 2 triggered: Red

**Communication Standard:**
- RS-485, RS-422 or RS-232

**Transfer speed (Baud rate):**
- 300, 600, 1200, 2400, 4800, 9600, 19200 bps

**Flow Control:**
- No Flow control

**Device Address:**
- 0 to 199

**Application:**
- Not designed for use in, and should not be used for, patient-monitoring,生命支持, or critical care environments.
- Not designed for use in a nuclear reactor environment.
- Not designed for use in patient-implantable medical devices, in life support systems where the failure of the device could be reasonably expected to cause the failure of the life support system, or to affect the safety or effectiveness of the life support system.
DESCRIPTION:

The LD24 is a 4-digit master/slave display providing remote readout from instruments such as programmable controllers, digital panel meters and other instruments with serial output (communication interfaces supported are RS-232 or RS-485 standards. Both RS-232 or RS-485 are programmable through front panel buttons.

The Big Display features a large three color programmable display with the capability to change color every time an Alarm is triggered.

Refer to the separate Signal Conditioner Manual for your specific Input details.

SAFETY:

- The instrument is a panel mount device protected in accordance with Class III of IEC 1010.
- EMC:
  - Whenever EMC is an issue, always use shielded cables.
  - Never run signal and power wires in the same conduit.
  - Use signal wires with twisted-pair cables.
  - Install Ferrite bead(s) on signal wire close to the instrument if EMC problems persist.

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)

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) Multiple Big Display: (RS485) write *, device address (2 digit), CR, 4 characters, then CR

4. Write alphanumeric characters to the Big Display from the computer (Display in Slave Mode)
   a) Single Big Display: (RS232) write 4 characters, then CR (carriage return)
   b) Multiple Big Display: (RS485) write *, device address (2 digit), CR, 4 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 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:
   Normal Color: “NO.CR”=Green
   Display colors change sequences:
   AMBER | RED | GREEN
   0 | LO-1=100 | LO-2=300

Example 2:
   Normal Color: “NO.CR”=Green
   Display colors change sequences:
   AMBER | RED | GREEN | RED | AMBER
   0 | LO-H=100 | HI-2=200 | LO-2=200 | HI-2=250

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 [MENU].
- While a parameter is being modified, press [MENU] to escape without saving the parameter.

- Press the 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 top menu press [UP] causes the display to return to the Run Mode.
- Press the DOWN button to scroll through sub-menu 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 Valley value several times before returning to the Run Mode.
- In the top menu press [DOWN] causes the display to return to the Run Mode.
- Press this button to store the submenus from a Top Level Menu item.
- Press this button to store the accessing submenus at entry a value – the display will flash a [OK] message to confirm your selection.

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