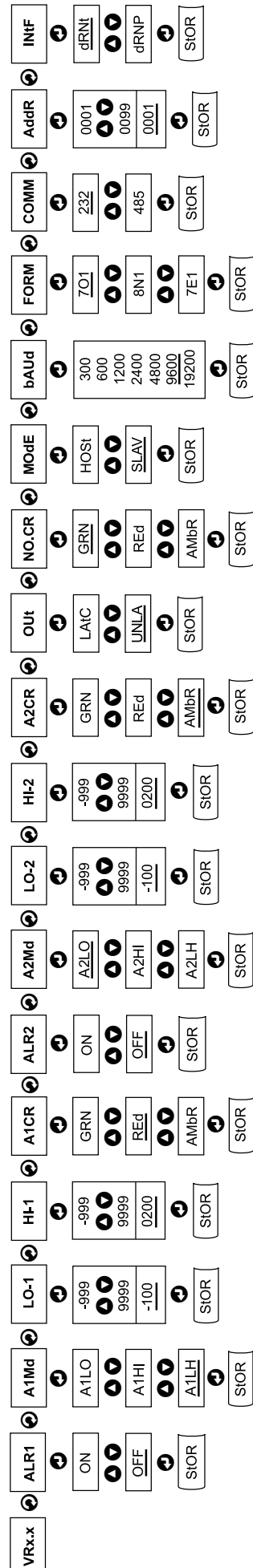


Below is a flowchart showing how to navigate through all menus by pressing front buttons.



DISPLAY ABBREVIATIONS

<b>ALR1</b>	Alarm 1 Status		
<b>OFF</b>	Alarm 1 set Off	<b>ON</b>	Alarm 1 set On
<b>A1Md</b>	Alarm 1 Mode		
<b>A1LO</b>	Alarm 1 Low	<b>A1HI</b>	Alarm 1 High
<b>A1LH</b>	Alarm 1 Low/High		
<b>LO-1</b>	Alarm 1 Low	<b>-999..</b>	Alarm 1 Low Value
		<b>..9999</b>	
<b>HI-1</b>	Alarm 1 High	<b>-999..</b>	Alarm 1 High Value
		<b>..9999</b>	
<b>A1CR</b>	Display color when Alarm 1 triggered		
<b>GRN</b>	Green Color	<b>REd</b>	Red Color
<b>AMbR</b>	Amber Color		
<b>ALR2</b>	Alarm 2 Status		
<b>OFF</b>	Alarm 2 set Off	<b>ON</b>	Alarm 2 set On
<b>A2Md</b>	Alarm 2 Mode		
<b>A2LO</b>	Alarm 2 Low	<b>A2HI</b>	Alarm 2 High
<b>A2LH</b>	Alarm 2 Low/High		
<b>LO-2</b>	Alarm 2 Low	<b>-999..</b>	Alarm 2 Low Value
		<b>..9999</b>	
<b>HI-2</b>	Alarm 2 High	<b>-999..</b>	Alarm 2 High Value
		<b>..9999</b>	
<b>A2CR</b>	Display color when Alarm 2 triggered		
<b>GRN</b>	Green Color	<b>REd</b>	Red Color
<b>AMbR</b>	Amber Color		
<b>Out</b>	Alarm Latched/Unlatched selection		
<b>LATc</b>	Latched	<b>UNLA</b>	Unlatched
<b>NO.CR</b>	Display Color in Normal condition		
<b>GRN</b>	Green Color	<b>REd</b>	Red Color
<b>AMbR</b>	Amber Color		
<b>MOdE</b>	Data Flow Mode		
<b>HOSt</b>	Host Mode	<b>SLAV</b>	Slave Mode
<b>bAud</b>	Baud Rate	<b>300..</b>	Baud Rate Value
		<b>..19200</b>	
<b>FORM</b>	Data Format		
<b>7O1</b>	7 Bit, Odd, 1 Stop Bit	<b>7E1</b>	7 Bit, Even, 1 Stop Bit
<b>8N1</b>	8 Bit, No parity, 1 Stop Bit		
<b>COMM</b>	Communication Standard		
<b>232</b>	RS-232 Standard	<b>485</b>	RS-485 Standard
<b>Addr</b>	Device Address	<b>0000..</b>	Address Value
		<b>..0099</b>	
<b>INtF</b>	Interface Device		
<b>dRnT</b>	DRN with Temperature Input	<b>dRNp</b>	DRN with Process Input
<b>Miscellaneous:</b>			
<b>PEAk</b>	Peak Value	<b>VALL</b>	Valley Value
<b>PROc</b>	Process Value	<b>RUN</b>	Run Mode
<b>OVLd</b>	Input Overload	<b>StOR</b>	Stored Message

- Note**
- In **Slave Mode** the Big Display will wait for commands and data from the Serial Bus.
  - In **Host Mode** the Big Display will send data automatically and continuously into the Serial Bus.
  - When used in **RS-485 Mode**, the device must be accessed with an appropriate **Address Value**.
  - Latched Mode:** Alarm remains latched until reset. To reset already latched alarm select any menu items and then press "up" or "down" button.

SPECIFICATION

**Temperature Stability:**  
50 ppm/°C

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

**Alarm:**  
Alarm 1 & 2 programmable, Latch/Unlatch, High, Low, High/Low

**Standards Compliance:**  
IEEE 802.3 10Base-T

**Supported Protocols:**  
TCP/IP, ARP, HTTPGET

**SERIAL INTERFACE**

**Communication Standard:**  
RS485, RS422

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

**Data Format:**  
7O1-7 bit, Odd, 1 stop bit, 7E1- 7 bit, even, 1 stop bit  
8N1 - 8 bit, No parity, 1 stop bit

**Multi-point Address (RS485):**  
0 to 199

**Flow Control:**  
No Flow control

**Screw terminals for RS-485/422 interface**

**NETWORK INTERFACE**

10Base-T port (RJ45 connector)  
**Socket Port number:**  
1000  
**HTTP Port number:**  
80

**Power Supply:**  
100-240 Vac ±10%, 50/60 Hz, 22.5 W

**Operating Temperature:**  
0 to 40°C

**Storage Temperature:**  
-20 to 60°C

**Relative Humidity:**  
0 to 85%

**Protection:**  
NEMA-4x (IP65)

**Dimensions:**  
394 L x 137 W x 73 D mm  
(15.50" x 5.375" x 2.875")

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

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

**Approvals:**  
CE per EN50081-1, EN50082-2, EN61010-1

**WARNING:** These products are not designed for use in, and should not be used for, patient-connected applications.

This device is marked with the international caution symbol. It is important to read the Setup Guide before installing or commissioning this device, as the guide contains important information relating to safety and EMC.

It is the policy of NEWPORT to comply with all worldwide safety and EMC/EMI regulations that apply. NEWPORT is constantly pursuing certification of its products to the European New Approach Directives. NEWPORT will add the CE mark to every appropriate device upon certification.

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NEWPORT Electronics, Inc. warrants this unit to be free of defects in materials and workmanship for a period of **one (1) year** from the date of purchase. In addition to NEWPORT's standard warranty period, NEWPORT Electronics will extend the warranty period for **four (4) additional years** if the warranty card enclosed with each instrument is returned to NEWPORT.

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The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

**FOR WARRANTY RETURNS,** please consult NEWPORT for current repair BEFORE contacting NEWPORT:

- Purchase Order number under which the product was PURCHASED,
- Model and serial number of the product under warranty, and
- Repair instructions and/or specific problems relative to the product.

**FOR NON-WARRANTY REPAIRS,** have the following information available BEFORE contacting NEWPORT:

- Purchase Order number to cover the COST the repair,
- Model and serial number of product, and
- Repair instructions and/or specific problems relative to the product.

NEWPORT's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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OPERATION MANUAL



**iSeries** Big Display with Embedded Ethernet

For immediate technical or application assistance please call:

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**1-800-NEWPORT**

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## iLD26-EI Big Display with Embedded Ethernet

### DESCRIPTION:

The iLD26-EI is a 6-digit master/slave display providing remote readout from instruments such as programmable controllers, digital panel meters and other instruments with serial or Ethernet output. Communication interfaces supported in the iLD26-EI are Ethernet and RS-485 standards. RS-485 is programmable through front panel buttons.

The iLD26-EI features a large three color programmable display with the capability to change color every time an Alarm is triggered.

**Note** The latest complete Operational Manuals as well as free Software and ActiveX Controls are available at: [www.newportUS.com](http://www.newportUS.com) or on the CD-ROM enclosed with your shipment.

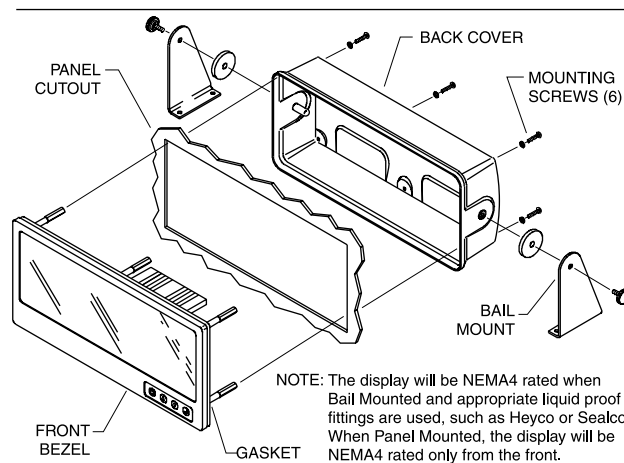
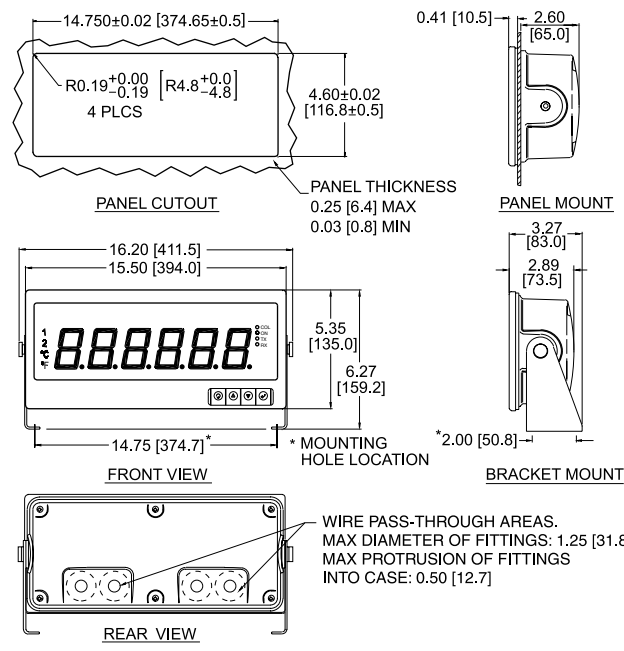
### SAFETY:

- 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 wire connections with twisted-pair cables.
- Install Ferrite Bead(s) on signal wire close to the instrument if EMC problems persist.

### MOUNTING



### Mounting Big Display Through Panel:

- Using the panel cutout diagram shown above, cut an opening in the panel.
- Remove six screws at the back of Big Display to remove back cover.
- 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.
- Align back cover to Big Display and reinstall screws.

### Mounting Big Display on Bail:

- Use the Big Display template to mark the location of mounting screws on the flat surface.
- Be sure to leave enough room around the bail (as noted on the template drawing) to allow for removal and rotation of the display.
- The display can be rotated for the best viewing angle.

### Disassembly Instruction:

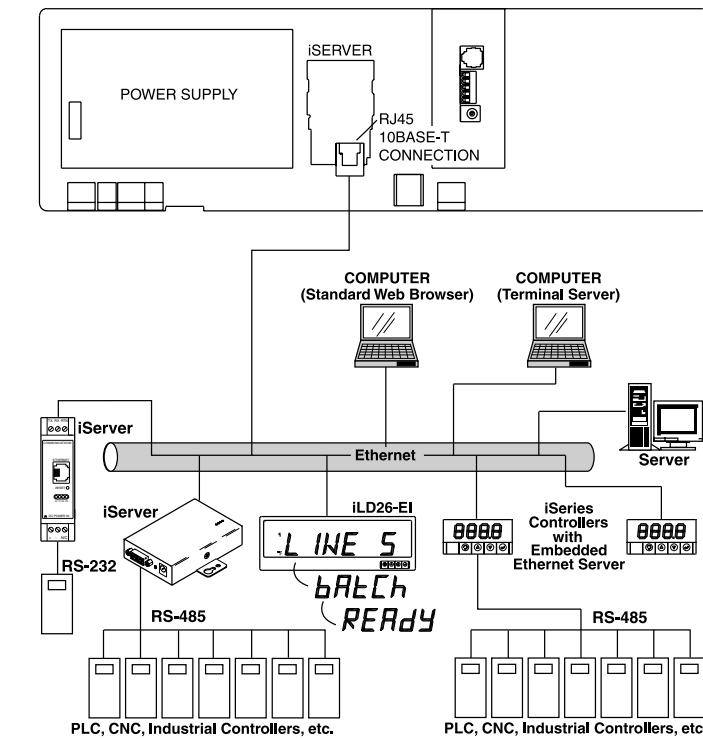
**Warning: Disconnect all ac power from the unit before proceeding.**

- Remove all wiring connections from the rear of the instrument, by unscrewing the power and input connectors.
- Remove six screws at the back of the display and back cover.
- Remove the Big Display from the panel.
- To remove the Big Display from the bail, unscrew the two knobs at each end of the mounting brackets.

### WIRING

#### 1. Wiring Ethernet Interface

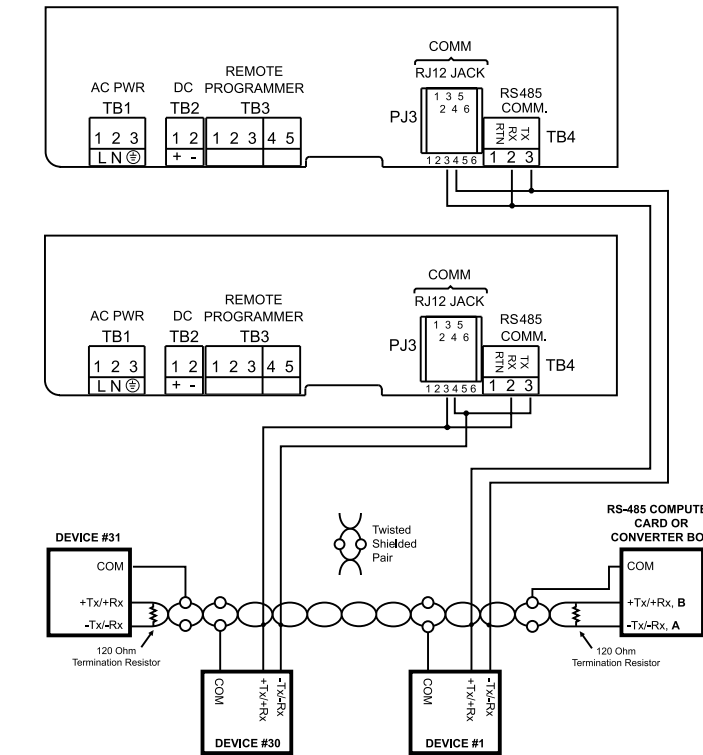
The embedded Ethernet Server is designed to connect industrial devices with serial interfaces to the Ethernet network using TCP/IP Protocol.



#### 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.

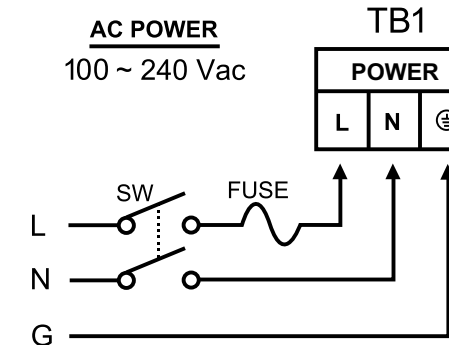
Computer Card or Converter Box Pin Function	Device with RS-485 Pin Function	Remote Display	
		RJ-12	Screw Terminal
A, -Tx/-Rx	-Tx/-Rx	4	3
B, +Tx/+Rx	+Tx/+Rx	3	2
COM	COM		1



**Note** Connections to the computer are optional.

#### 3. Power Connection.

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



### OPERATIONS

#### 1. Peak Value (Display in Host Mode)

Press **▲** to request "Peak" value:  
RS-485 Mode, will send:  
\*01X02 (Interface DRNT), or \*01X03 (Interface DRNP)

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

#### 2. Valley Value (Display on Host Mode)

Press **▼** to request "Valley" value.  
RS-485 Mode, will send:  
\*01X03 (Interface DRNT), or \*01X04 (Interface DRNP)

#### 3. Process Value (Display on Host Mode)

Press **⏏** to request "Process" Value.  
RS-485 Mode, will send: \*01X01

#### 4. Write alphanumeric characters to the Big Display from the computer (Display in Slave Mode)

Multiple Big Display: (RS485) write \*, device address (2 digit), CR, 6 characters, then CR

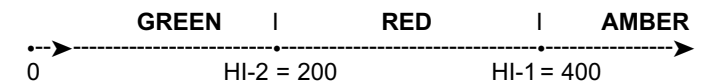
#### 5. Display Color Setup (Alarm Setup)

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 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:

Alarm 1 setup: "ON", Alarm Mode High "A1HI", Alarm High Value "HI-1"=400, Alarm Color "A1CR"=Amber  
Alarm 2 setup: "ON", Alarm Mode High "A2HI", Alarm High Value "HI-2"=200, Alarm Color "A2CR"=Red  
Normal Color: "NO.CR"=Green

Display colors change sequences:



### CONFIGURATION

Button Functions in Configuration Mode

<b>(MENU)</b>	<ul style="list-style-type: none"> <li>To enter the Menu, the user must first press <b>⏏</b> button.</li> <li>Use this button to advance/navigate to the next menu item. The user can navigate through all the top level menus by pressing <b>⏏</b>.</li> <li>While a parameter is being modified, press <b>⏏</b> to escape without saving the parameter.</li> </ul>
<b>(UP)</b>	<ul style="list-style-type: none"> <li>Press the up <b>▲</b> 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.</li> <li>In the Run Mode pressing <b>▲</b> causes the display to flash the PEAK value several times before returning to the Run Mode.</li> <li>In the top menu press <b>▲</b> causes the display to return to the Run Mode.</li> </ul>
<b>(DOWN)</b>	<ul style="list-style-type: none"> <li>Press the down <b>▼</b> 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.</li> <li>In the Run Mode press <b>▼</b> causes the display to flash the Valley value several times before returning to the Run Mode.</li> <li>In the top menu press <b>▼</b> causes the display to return to the Run Mode.</li> </ul>
<b>(ENTER)</b>	<ul style="list-style-type: none"> <li>Press this button to access the submenus from a Top Level Menu item.</li> <li>Press this button to store a submenu selection or after entering a value – the display will flash a <b>SEtOR</b> message to confirm your selection.</li> </ul>

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