**ILD62-EI** Big Display with Embedded Ethernet

**DESCRIPTION:**

The ILD62-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 ILD62-EI are Ethernet and RS-485 standards. RS-485 is programmable through front panel buttons.

The ILD62-EI features a large three color programmable display with the capability to change color every time an Alarm is triggered. The latest complete Operational Manuals as well as free Software and ActiveX Controls are available at: 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.
- 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.

**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.

   - Connections to the computer are optional.

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

4. **Mounting Big Display Through Panel:**
   - Using the panel cutout diagram shown above, cut an opening in the panel.
   - 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.

5. **Process Value (Display on Host Mode)**
   - Press **0** to request “Valley” value. RS-485 Mode, will send: *01X03 (Interface DRNT), or *01X04 (Interface DRNP)

6. **Valley Value (Display on Host Mode)**
   - Press **0** to request “Valley” value. RS-485 Mode, will send: *01X01

7. **Alarm Value (Display on Host Mode)**
   - Press **0** to request “Valley” value. RS-485 Mode, will send: *01X01

**OPERATIONS**

1. **Peak Value (Display in Host Mode)**
   - Press **0** to request “Peak” value. RS-485 Mode, will send: *01X02 (Interface DRNT), or *01X03 (Interface DRNP)

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

2. **Process Value (Display on Host Mode)**
   - Press **0** to request “Valley” value. RS-485 Mode, will send: *01X03

3. **Display Color Setup (Alarm Setup)**
   - Multiple Big Display (RS485) write, device address (2 digit), CR, 6 characters, then CR

**Display colors change sequences**

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<tr>
<th>GREEN</th>
<th>I</th>
<th>RED</th>
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<th>AMBER</th>
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**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 the display and back cover.
3. To remove the Big Display from the panel, unscrew the two knobs at each end of the mounting brackets.

**Mounting Big Display on Bail:**

1. Use the Big 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.

**Configurations**

- **Operations:**
  - 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 **(S+/S-)**.
  - While a parameter is being modified, press **(S+/S-)** to escape without saving the parameter.

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

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

- **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.

- **Wiring Ethernet Interface:**
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- **Mounting Big Display Through Panel:**
  - Using the panel cutout diagram shown above, cut an opening in the panel.
  - 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.

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

- **Configurations**
  - Button Functions in Configuration Mode

**Connection to the computer are optional.**

- **Alarm Mode High**
  - Press **0** to request “Peak” value. RS-485 Mode, will send: *01X02 (Interface DRNT), or *01X03 (Interface DRNP)

**Configuration**

- **Operations:**
  - To enter the Menu, the user must first press **(MENU)** button.
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