



# Electronic Sensors, Inc.

## Multi-Purpose NEMA-4X Display

Model  
9179

### DESCRIPTION

The Model 9179 is a NEMA-4X Multi-Purpose display unit used to display digital values. Typical use is the displaying of volumetric values of liquid in a storage tank. Many other parameters may be displayed in addition to volumetric data. Its general design allows any 4-20 ma signal to be converted and displayed in any engineering units. The display has three cable arrangements and automatically detects the connection at power up. Since the unit obtains its supply power from the device it is connected to, there are no batteries to replace.

### OPERATION

The unit may be permanently mounted as a site display and control panel, or used as a portable setup device. Its large 1-inch display with back lighting makes it easy to see and use. Having multiple cable arrangements makes the display a handy device to have when setting up a new site. Front panel buttons make it easy to setup and control several types of remote transmit units (RTU) manufactured by Electronic Sensors, Inc.

### SPECIFICATIONS

#### Displays

- 2 digit LCD
- 8 digit LCD

#### Digit Size

- 0.5 inch tall

#### Connection Modes

- 4-20ma loop powered
- ESI Serial I/O
- ESI Parallel I/O

#### Size

- 2.5 x 6.3 x 3.0 (D x L x H) inches

#### Weight

- 11 Ounces

#### Material

- SBS with Polycarbonate lid

#### Case Ratings

- NEMA 4X
- UV protected

#### External Control

- 5 buttons: Up, Down, Left, Right, and Program

#### Back Lighting

- Programmable

#### Internal Terminals

- 8 #4 screw terminals

#### Power Requirements

- 4-20ma Loop Drop
- 5 volts @ < 4ma
- With back lighting: 9 volts

#### Serial Mode

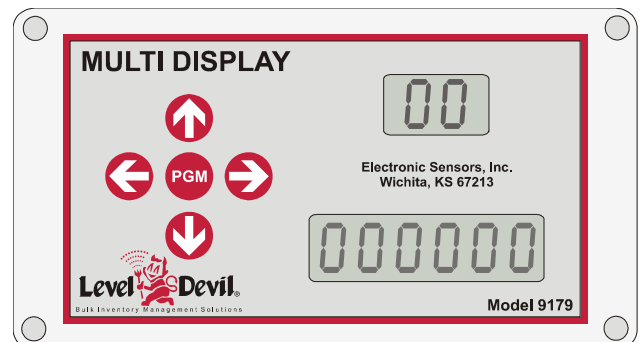
- 6 – 12 VDC @ 20ma
- With back lighting: +10ma

#### Parallel Mode

- 6 – 12 VDC @ 20ma
- With back lighting: +10ma

#### Maximum Cable Length

- Serial: 250 feet
- Parallel: 50 Feet
- 4-20 ma: limited by loop excitation voltage.



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### ORDERING INFORMATION

The display unit is ordered using one part number regardless of the cable arrangement. One model works in all cable arrangements. Extension cables are available to enhance the different modes of operation and installation options.

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#### Options:

- 9179S3 — Serial cable (3 feet) with mating connector for RTU having serial interfaces
- 9179S25E — 25 foot serial extension cable with connectors on both ends
- 9179S50E — 50 foot serial extension cable with connectors on both ends
- 9179S100E — 100 foot serial extension cable with connectors on both ends
- 9179P3 — Parallel cable (3 feet) with mating connector for RTU having parallel interfaces
- 9179P25E — 25 foot parallel extension cable with connectors on both ends
- 9179P50E — 50 foot parallel extension cable with connectors on both ends
- 9179P100E — 100 foot parallel extension cable with connectors on both ends

#### Notes:

1. No special cabling is required for a 4-20ma connection.
2. Extension cables may be ganged together to the maximum specified length. See specifications for maximum length.
3. One display unit may be wired for all three-connection modes but only one connection (cable) may be connected at any one time

Your Area Representative:

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