

## EchoSonic™ Two-Wire Ultrasonic Level Transmitter



### Specifications

|                   |   |
|-------------------|---|
| Range:            | 2" to 26.2' (5cm to 8m)                                 |
| Accuracy:         | ± 0.2% of span in air                                   |
| Beam width:       | LU05/12: 2" (5cm) dia.<br>LU11/13: 3" (7.6cm) dia.      |
| Dead band:        | LU05: 2" (5cm)<br>LU11/13: 4" (10cm)<br>LU13: 8" (20cm) |
| Supply voltage:   | 12-28 VDC   |
| Signal output:    | 4-20 mA, two-wire                                       |
| Calibration:      | Target, calibration wire                                |
| Process temp:     | F: -4° to 140°<br>C: -20° to 60°                        |
| Pressure:         | 30 psi (2 bar)  |
| Cable length:     | 10' (3m)  |
| Enclosure rating: | 50_1: NEMA 6 (IP67)<br>51_1: NEMA 4X (IP65)             |
| Process mount:    | 1" / 2" NPT (1" / 2" G)                                 |
| Trans. material:  | PVDF  |
| Classification:   | General purpose   |

### Application

The general purpose two-wire ultrasonic transmitter provides non-contact level measurement up to 26.2' or 8m, and is well suited for challenging corrosive, slurry or waste liquids. The transmitter is broadly selected for atmospheric bulk storage, day tank, process vessel, IBC tote, 55-gallon drum and waste sump applications. Media examples include acetic acid and resin.

### Features

- Simple compact sensor with target calibration and LED status indicator
- Offered in four measurement ranges up to 8m with 1" and 2" transducers
- 5 cm minimum beam width for applications with restricted space
- PC/ABS enclosure rated NEMA 6 or NEMA 4X with PVDF transducer
- Fail-safe intelligence with diagnostic feedback for easy troubleshooting

### Tech Tip

The 4-20 mA span set points are easily calibrated in seconds using the calibration wire, DC power supply and flat reflective target. Just hold the transmitter at the desired range and turn power ON until the logo plate illuminates. Its level made simple.



- LU05-5001 LU05-5061 LU05-5101 LU05-5161
- LU12-5001 LU12-5061 LU12-5101 LU12-5161
- LU11-5001 LU11-5061 LU11-5101 LU11-5161
- LU13-5001 LU13-5061 LU13-5101 LU13- 5161

LU   -5   1

**Sensor range / size (1)**

- 05 1.2m (4') / 1"
- 12 3m (9.8') / 1"
- 11 5m (16.4') / 2"
- 13 8m (26.2') / 2"

**Enclosure / termination (2) (3)**

- 0 NEMA 6 / cable
- 1 NEMA 4X / conduit

**Process mount**

- 0 NPT (US)
- 6 G (Metric)

**Ordering Notes**

- 1) For 18V battery powered target calibration with 4-20 mA span indication, order the LU96-1001 calibrator.
- 2) The NEMA 6 includes a standard 10' (3m) cable. To special order a 25' (7.6m) or 50' (15.2m) cable, place the cable length at the end of the part number (ie: LU12-5001-25).
- 3) The NEMA 4X enclosure has a flip-lid with dual conduit ports and a terminal strip.

203 Vest Avenue  
Valley Park, MD 63088

Toll Free: (888) SPECTECH  
Phone: (636) 537-0202

Fax: (636) 537-1405  
E-Mail: sales@spectechind.com