

# NON-CONTACT ULTRASONIC LEVEL TRANSMITTER

## LVU100 Series



- ✓ Simple Compact Sensor with Target Calibration and LED Status Indicators
- ✓ 4 Measurement Ranges up to 8 m (26') with 1 or 2" (25 to 50 mm) Transducer Mounting
- ✓ 5 cm (2") Minimum Beam Width for Applications with Restricted Space
- ✓ 5 cm (2") Deadband Optimizes the Filling Capacity of Small Vessels
- ✓ PC/ABS Enclosure Rated NEMA 6 (IP67) with Optional NEMA 4X (IP65)
- ✓ Fail-Safe Intelligence with Diagnostic Feedback for Easy Troubleshooting

The LVU100 Series is a general purpose 2-wire ultrasonic transmitter. It provides non-contact level measurement up to 8 m (26'), and is well suited for handling ultrapure, corrosive, slurry or waste liquids. The LVU100 Series transmitter is often used in atmospheric bulk storage, day tank, waste sump, process vessel, IBC tote, 55-gallon drum and waste sump applications. Media examples include acetic acid and resin.

### SPECIFICATIONS

#### Range:

- LVU104: 5 cm to 1.2 m (2" to 4')
- LVU109: 10 cm to 3 m (4" to 9.8')
- LVU116: 10 cm to 5 m (4" to 16.4')
- LVU126: 20 cm to 8 m (8" to 26.2')

#### Accuracy:

- LVU104: 3 mm (0.125")
- LVU109/116/126: ±0.2% of span in air

#### Resolution:

- LVU104/109: 0.5 mm (0.019")
- LVU116/126: 1 mm (0.039")



LVU104, shown smaller than actual size.

#### Beam Width:

- LVU104/109: 5 cm (2") dia.
- LVU116/126: 7.6 cm (3") dia.

#### Deadband:

- LVU104: 5 cm (2")
- LVU109/116: 10 cm (4")
- LVU126: 20 cm (8")

**LED Indication:** Power, calibration and diagnostics

**Memory:** Non-volatile

**Supply Voltage:** 12 to 28 Vdc

**Loop Resistance:** 500 Ω @ 24 Vdc

**Signal Output:** 4 to 20 mA, 2-wire

**Signal Invert:** 4 to 20 mA or 20 to 4 mA

**Calibration:** Target, calibration wire

**Fail-Safety:** Reverts to 22 mA

**Process Temperature:** -20 to 60°C

(-4 to 140°F)

**Temperature Compensation:** Automatic

**Electronics Temperature:** -40 to 71°C

(-40 to 160°F)

**Pressure:** 30 psi (2 bar) @ 25°C, derated @ 1.667 psi (0.115 bar) per °C above 25°C

**Enclosure Rating:** NEMA 6 (IP67), NEMA 4X (IP65) optional

**Enclosure Material:** PC/ABS FR

**Transducer Material:** PVDF

**Cable Jacket Material:** PP

**Cable:** 3-conductor, shielded 3 m (10')

**Conduit Entrance:** Dual, ½ NPT

on NEMA 4 (IP65) version

**Process Mount:**

LVU104/109: 1 NPT or 1" G

LVU116/126: 2 NPT or 2" G

**Mounting Gasket:** FKM

**Classification:** General purpose

CE compliance

To Order	
Model No.	Description
LVU104	2-wire transmitter—1.2 m (4') range, 1 NPT, NEMA 6
LVU104G	2-wire transmitter—1.2 m (4') range, 1 straight thread, NEMA 6
LVU109	2-wire transmitter—3 m (9.8') range, 1 NPT, NEMA 6
LVU109G	2-wire transmitter—3 m (9.8') range, 1 straight thread, NEMA 6
LVU116	2-wire transmitter—5 m (16.4') range, 2 NPT, NEMA 6
LVU116G	2-wire transmitter—5 m (16.4') range, 2 straight threads, NEMA 6
LVU126	2-wire transmitter—8 m (26.2') range, 2 NPT, NEMA 6
LVU126G	2-wire transmitter—8 m (26.2') range, 2 straight threads, NEMA 6
LVM-30	Side mount bracket 2 NPT

Comes complete with operator's manual and 3 m (10') cable.

For NEMA 4X (IP65) rated enclosure add "-NEMA4" to the model number for additional cost. (cable not included with this model).

**Ordering Examples:** LVU116, 2-wire transmitter, 5 m (16.4') range, 2 NPT mounting, NEMA 6 (IP67) enclosure with 3 m (10') cable.

LVU104-NEMA4, 2-wire transmitter, 1.2 m (4') range, 1 NPT mounting, optional NEMA 4X (IP65) enclosure.