

NON-CONTACT LOOP POWERED ULTRASONIC LEVEL TRANSMITTER

LVU800 Series



- ✓ Simple, Fast Setup with Pushbutton Calibration and LCD Display
- ✓ Three Measurement Ranges Available up to 10 m (32')
- ✓ 6-segment LCD Display Indicates Air Gap or Liquid Level (Inch or Centimeter Units)
- ✓ 7.6 cm (3") Minimum Beam Width for Applications with Restricted Space
- ✓ NEMA 4X (IP65) Enclosure with Rugged PVDF Transducer
- ✓ Fail-Safe Intelligence with Diagnostic Feedback for Easy Troubleshooting

The LVU800 Series general purpose 2-wire ultrasonic transmitter provides non-contact level measurement up to 10 m (32'), and is ideally suited for challenging ultrapure, corrosive or waste liquids. Pushbutton calibrated, the transmitter is broadly selected for atmospheric bulk storage, day tank and waste sump applications. Media examples include wastewater and sodium hydroxide.

SPECIFICATIONS

Range:

LVU809: 10 cm to 3 m (4" to 9.8')

LVU816: 20 cm to 5.5 m (8" to 18')

LVU826: 20 cm to 8 m (8" to 26.2')

LVU832: 30 cm to 10 m (12" to 32.8')

Accuracy: $\pm 0.2\%$ of span

Resolution:

LVU809: 0.5 mm (0.019")

LVU816/826: 1 mm (0.039")

LVU832: 2 mm (0.078")

Beam Width:

LVU809: 5 cm (2")

LVU816/826/832: 7.6 cm (3") diameter

Deadband:

LVU809: 10 cm (4")

LVU816: 20 cm (8")

LVU826: 20 cm (8")

LVU832: 30 cm (12")

Display Type: LCD, 6-digit

Display Units: Inch, cm or percent

Display Mode: Air gap or liquid height

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: Pushbutton

Fail-Safety: Selectable 4 mA, 20 mA, 21 mA, 22 mA or hold

Process Temperature:

-20 to 60°C (-7 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

(0.113 bar)

per above 25°C

Enclosure

Rating:

NEMA 4X (IP65)

Enclosure Vent:

Watertight

membrane

Enclosure

Material: PC/ABS FR

Transducer Material:

PVDF

Process Mount:

LVU809: 1 NPT or 1" G

LVU816/826/832: 2 NPT

or 2" G

Mounting Gasket: FKM

Conduit Entrance: Dual, ½ NPT

Classification: General purpose

CE compliance EN 61326 EMC



LVU816, shown smaller than actual size.

To Order

Model No.	Description
LVU809	2-wire transmitter 3 m (9.8') range, display 1 NPT
LVU809-G	2-wire transmitter 3 m (9.8') range, display 1" straight threads
LVU816	2-wire transmitter 5.5 m (18') range, display, 2 NPT
LVU816-G	2-wire transmitter 5.5 m (18') range, display, 2" straight threads
LVU826	2-wire transmitter 8 m (26.2') range, display, 2 NPT
LVU826-G	2-wire transmitter 8 m (26.2') range, display, 2" straight threads
LVU832	2-wire transmitter 10 m (32.8') range, display, 2 NPT
LVU832-G	2-wire transmitter 10 m (32.8') range, display, 2" straight threads
LVM-30	Side mount bracket

Comes complete with operator's manual.

Ordering Examples: **LVU816**, 2-wire transmitter 5.5 m (18') range, 2 NPT.

LVU816-G, 2-wire transmitter, 5.5 m (18') range, 2" G connection.