

ULTRASONIC NON-CONTACT REMOTE LIQUID LEVEL TRANSMITTER

LVU-1000



- ✓ Very Small Sensor with 3/4 NPT Mounting (LVU-1000)
- ✓ 0.3 to 9 m (0.5 to 30') Range on the LVU-1010
- ✓ Programmable Zero, Span, and Four Alarm Setpoints

The LVU-1000 ultrasonic non-contact transmitter consists of the transducer and state-of-the-art microprocessor-based electronics housed in a NEMA 4X (IP65) enclosure. The LVU-1000 Series microtransducer has a 3/4 NPT mount for ranges of from 0.15 to 3.7 m (0.5 to 12'). It will fit into hard-to-reach spaces such as existing capacitance system installations. Its small size and high accuracy make this sensor ideal for all types of liquid level measurement as well as product runoff.

The LVU-1010 is ideal for tanks where size is not a limitation. The LVU-1010 has 2 NPT mounting threads and a range of 0.3 to 9 m (1 to 30').

A continuous 4 to 20 mA output as well as four alarm setpoints (adjustable in increments of 0.1" over entire span) are provided to satisfy a number of applications. Programming is done through a pair of pushbutton entry switches and an internal display. Multiple control parameters can be programmed to provide many complex control applications.

SPECIFICATIONS

Range:

LVU-1000: 0.15 to 3.7 m (0.5 to 12') with 3/4 NPT

LVU-1010: 0.3 to 9 m (1 to 30') with 2 NPT

Repeatability: 3.2 mm (1/8") typical

Accuracy: Analog output, 0.25% FS

Temperature Compensation: Automatic over full range of sensor operating temperature

Input Power: 115 Vac 50/60 Hz standard; 230 Vac 50/60 Hz and 24 Vdc optional

Output Signal: 4 to 20 mA DC (isolated)



LVU-1004-A shown with 3/4 and 2 NPT sensors, shown smaller than actual size. Only one sensor supplied with indicator.

Controls: Programmable zero and span, height and distance mode

Display: 4-digit

Alarm Setpoints: Four 10A at 120 Vac or 28 Vdc SPDT relays, programmable in increments of 0.1", independent lost echo relay

Temperature Range:

Sensor: -29 to 82°C (-20 to 180°F)

Electronics: -29 to 77°C (-20 to 170°F)

Sensor

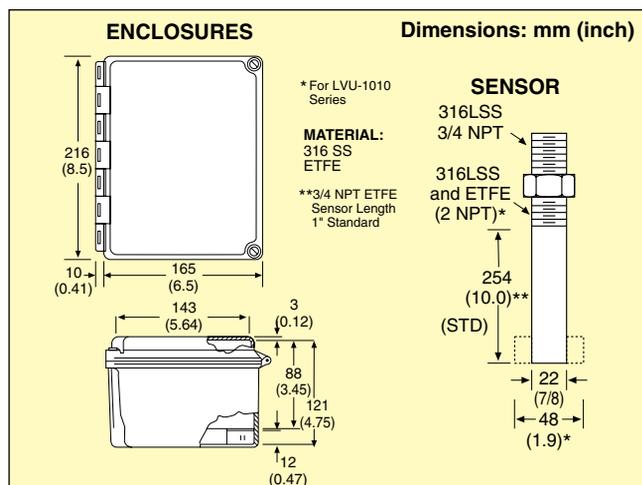
Construction: 316 SS, ETFE

Pressure Rating: 316 SS: 250 psig PTFE, PVDF, CPVC: 100 psig

Cable: 6.1 m (20') standard, maximum to 30.5 m (100')

Electronics Enclosure: NEMA 4X (IP65) Fiberglass

Mounting: 3/4 NPT: range up to 3.7 m (12'); 2 NPT: range up to 9.1 m (30')



To Order

Model No.	Sensor Material	Sensor Length mm (inch)
3/4 NPT, 0.5 to 12' Span		
LVU-1002	316 SS	254 (10)
LVU-1004-A	ETFE	25.4 (1)
2 NPT, 1 to 30' Span		
LVU-1012	316 SS	254 (10)
LVU-1014-A	ETFE	254 (10)

Comes complete with operator's manual.

For 1" sanitary fitting: add "-S" to model number, for additional cost (3/4" models only).

For 24 Vdc operation: add suffix "-24V" to model number, no additional cost.

For 230 Vac operation: add suffix "-230V" to model number, for additional cost

Ordering Examples: LVU-1002, 3/4 NPT transmitter, 316 SS construction.

LVU-1014-A, 2 NPT transmitter, ETFE construction.