TWO-WIRE ULTRASONIC LEVEL TRANSMITTER



- Non-Contact Level Transmitter with 4 to 20 mA Output
- Accurate and Reliable Level Measurement from 0.2 to 5.5 m (0.5 to 18')
- Automatic Temperature Compensation
- 8° Beam Allows Application in Restricted Environments
- All-Plastic Construction
- Pushbutton Calibration with Display
- Microprocessor
 Logic Filtration
 Eliminates False
 Echo Signal Returns
- Failsafe Intelligence Provides Echo Signal Loss Safety

The LVU-201A 2-wire ultrasonic level transmitter is the compact solution for non-contact continuous level measurement in process vessels, storage tanks, and open channels. This loop-powered device provides accurate level measurement up to 5.5 m (18') and is the ideal choice for more challenging coating or scaling liquids, including sodium hydroxide, wastewater, resin, wax, liquor, and bleach.

An ultrasonic sound wave is pulsed 2 times per second from the base of the transducer. The sound wave reflects against the process medium below and returns to the transducer. The microprocessor-based electronics measure the time of flight between the sound generation and receipt, and translates this figure into the distance between the transmitter and process medium below.

SPECIFICATIONS

Range: 0.2 to 5.5 m (0.5 to 18') Accuracy: ±0.25% of span Resolution: 3 mm (0.125") Frequency: 50 kHz Pulse Rate: 2 pulses/second Beam Width: 8° conical **Blocking Distance:** 15.2 m (6") minimum Display Type: 4-segment LCD Display Units: In/cm Supply Voltage: 12 to 32 Vdc Max Loop Resistance: 600 Ω @ 24 Vdc Signal Output: 4 to 20 mA Signal Invert: 4 to 20 mA/20 to 4 mA Calibration: Pushbutton Mountable Gasket: FKM Conduit Entrance: Single, ½ NPT Classification: Intrinsically Safe CSA: Class I, Groups B, C and D; Class II, Groups E, F and G; Class III T30 EEx: Class 1, Division 1, Groups A, B, C, D; EExia IIC T3 Parameters: **CSA:** V_{max} < 32 V; I_{max} < 130 mA; $C_a = 0 \ \mu F; \ L_a = 0 \ \mu H$ **EEx:** $U_i = 32^{\circ} V$; $I_i = 300 \text{ mA}$; $P_i = 1.3 \text{ W}; C_i = 0 \mu\text{F}; L_i = 0 \mu\text{H}$ Certificates: CSA-LR 79326 CE Compliance: EN61326 EMC Failsafe Diagnostic: Reverts to 4 mA or 22 mA **Temperature Rating:** -20 to 60°C (-4 to 140°F) **Temperature Compensation:** Automatic over entire range Pressure Rating: 30 psi @ 25°C, derated @1.667 psi per °C above 25°C Enclosure Rating: NEMA 4X (IP66) Enclosure Material: Polypropylene Transducer Material: Polyvinylidene fluoride MountingThreads: 2 NPT Dimensions: 71 D x 159 mm H (2.8 x 6.3")



APPLICATION VARIABLES

| | Variable | Yes | No | | | | |
|--------|-----------------------|-----|----|--|--|--|--|
| Liquid | Foam | | | | | | |
| | Conductive | | | | | | |
| | Non-Conductive | ~ | | | | | |
| | Δ Conductivity | | | | | | |
| | Contact | | | | | | |
| | Non-Contact | ~ | | | | | |
| | Clean | | | | | | |
| | Dirty | | | | | | |
| | Non-Coating | ~ | | | | | |
| | Vapors | | | | | | |
| | Δ Gas Density | | | | | | |
| | Vacuum | | | | | | |
| | Ambient pressure | | | | | | |
| | Low Pressure | | | | | | |
| | Medium pressure | | | | | | |
| | | | | | | | |

AVAILABLE FOR FAST DELIVERY!

| To Order (Specify Model Number) | | | | | | |
|---------------------------------|-------|----------------------------------------------------------|--|--|--|--|
| Model No. | Price | Description | | | | |
| LVU-201A | \$900 | Ultrasonic 2-wire transmitter, loop powered (4 to 20 mA) | | | | |

Accessories

| Model No. | Price | Description | |
|-------------|-------|----------------------------------------------|--|
| SBG111956 | \$103 | Single channel zener barrier | |
| LVCN-51 | 425 | Continuous relay controller with LED display | |
| VT-1004-VHS | 99 | Reference Video: Visual Lever Sensors | |

Comes complete with operator's manual.

The above-mentioned prices are based on the general purpose transmitter configuration. **Ordering Example: LVU-201A**, ultrasonic 2-wire transmitter, loop-powered 4 to 20 mA, **\$900**. CSA-approved intrinsically safe configuration when used with SBG111956.

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