## **ULTRASONIC LEVEL TRANSMITTER**

## LVU-2001 Series



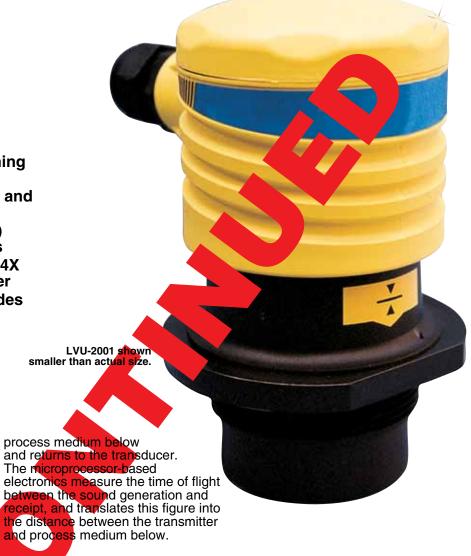
- Accurate and Reliable **Level Measurement From** 15.2 cm to 3.7 m (0.5 to 12')
- ✓ Fixed Range–No Programming Required
- Low-Cost Solution for OEM and **Process Applications**
- ✓ Compact Size and 5 cm (2") Transducer for Small Tanks
- ✓ PP Enclosure Rated NEMA 4X (IP65) with PVDF Transducer
- ✓ Fail-Safe Intelligence Provides **Maximum Process Safety**

The two-wire, bulk tank ultrasonic level transmitter is mounted through the top wall of the tank and provides non-contact measurement up to 3.7 m (12'). The range is fixed: 4 mA = 144" or 12' (distance from sensor) and 20 mA = 6" or 0.5'. No programming is required. With non-contact technology, the transmitter is an excellent choice for applications with dirty, coating, corrosive type liquids. The compact design is the perfect size for small tank applications.

A high-frequency ultrasonic sound wave is pulsed three times per second from the base of the transducer The sound wave reflects against the

## **APPLICATION VARIABLES**

	Variable	Yes	No
	General Purpose		
	Conductive	1	
	Non-conductive		
	Δ Conductivity	~	
	Contact		1
	Non-contact	1	
Liquid	Clean		
	Dirty	K	
	Coating	1	
	Non-coating	1	
	Vapors		1
	Δ Gas Density		
	Vacuum		1
	Ambient Pressure		
	Low Pressure		
	Medium Pressure		1
	Intrinsically Safe		
	Integral Relay		
	Foam		



## SPECIFICATIONS

Range: 15.2 cm to 3.7 m

(0.5 to 12')

Accuracy: ±0.25% of span in air Resolution: 3 mm (0.125") Frequency: 50 kHz Pulse Rate: 3 per second Beam Width: 8° conical Dead Band: 15.2 cm (0.5') min.

standard conditions

Supply Voltage: 12 to 36 Vdc Loop Resistance: 600 Ω @ 36 Vdc

Signal Output: 4 to 20 mA

Fail-Safe Diag.: Reverts to 22 mA **LED Indication:** Power and fail-safety **Temp. Rating:** -40 to 60°C (-40 to 140°F) Temp. Comp.: Over entire range

Pressure Rating: 2 bar (30 psig) @ 25°C, derated @ .113 bar (1.667 psig) per °C

above 25°C

Enclosure Rating: NEMA 4X (IP65) Enclosure Mat'l: PP (U.L. 94 VO)

Transducer Mat'l: PVDF Mounting Threads: 2 NPT or 2 G

Conduit Conn.: 1/2 NPT

Mounting Gasket: FKM for LVU-2002

To Order				
Model No.	Description			
LVU-2001	Ultrasonic level transmitter, 2 NPT			
LVU-2002	Ultrasonic level transmitter, 2 G			
LVCN-51	Controller with LED display			

Comes with complete operator's manual.

Ordering Examples: LVU-2001, ultrasonic level transmitter with LVCN-51 controller, LVU-2001, ultrasonic transmitter.