BATTERY POWERED LEVEL TRANSMITTER AND DISPLAY

CE



Accurate and Reliable Level Measurement from 15 cm to 3.7 m (6" to 12')

LVU-19

- Low-Cost Solution for OEM and Process Applications
- Compact Size and 5.1 mm (2") Transducer for Small and Medium Size Tanks
- **Transmitter Features PP Enclosure Rated NEMA 4X** with PVDF Transducer
- **Display Features Polycarbonate** Enclosure Rated NEMA 4X with **Clear Faceplate**
- Large 3.5 Digit 8.9 cm (0.5") LCD with Floating **Decimal Point**
- Engineering Units on Display Range from -500 to 1999
- Simple Potentiometer Calibration for all Display Set Points

A high frequency ultrasonic sound wave is pulsed three 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.

The LVU-19 features two portions, a level transmitter and a compact display, that are both rated NEMA 4X. The level transmitter is mounted through the top wall of the tank and provides non-contact measurement up to 3.7 m (12'). The display is mounted to the side of the tank and provides local indication. The entire system is powered via a 18 Vdc battery supply and can be activated by a moment switch located below the display. With noncontact technology, the transmitter and display are an excellent choice for applications with dirty, coating, corrosive type liquids. The compact design is the perfect size for small and medium tank applications.

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: 18 Vdc Battery Supply: 2 x 9 Vdc batteries (included) Loop Resistance: 300 ohms @ 18 Vdc Signal Interface: 4 to 20 mA Fail-safe Diag .: Reverts to 22 mA Display Type: LCD, 3.5 digits **Display Size:** 8.9 cm (0.5") Calibration Adj.: Dual potentiometers LED Indication: Power & Fail Safe Temp. Rating: -40 to 60°C (-40 to 140°F) Temp. Comp.: Over entire range Pressure Rating: 30 psi (2 bar) @ 25°C, derated @ 1.667 psi (0.113 bar) per °C above 25°C Enclosure Rating: NEMA 4X (IP65) Trans. Material: Encl: PP (U.L. 94 VO) Transducer: PVDF Display Material: Polycarbonate Mounting Threads: 2" NPT (2" G) Conduit Conn.: 1/8" NPT

Cable Length: 4.5 m (15')

To Order (Specify Model Number)				
Model No.	Price	Description		
LVU-19	\$895	Battery powered level transmitter and display, 2" NPT		
LVU-19-G	900	Battery powered level transmitter and display, 2" G thread		
GE-2427	105	Ultrasound and Elastic Waves		
Comes with complete operator's manual.				

Comes with complete operator's manual. Ordering Example: LVU-19, Battery powered level transmitter and display with a 2" NPT ťhread, **\$895.**

LVU-19, \$895, shown smaller than actual size.

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Mounting Gasket: Viton® (2") metric only **Overall Dimensions:** 71 W x 137 mm L (2.8 x 5.4") **Display Dimensions:** 140 W x 80 H x 65 mm D (5.51 x 3.15 x 2.5")

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APPLICATION VARIABLES

	Variable	Yes	No
Liquid	General Purpose	1	
	Conductive		
	Non-conductive		
	s Conductivity		
	Contact		٢
	Non-contact		
	Clean		
	Dirty		
	Coating		
	Non-coating		
	Vapors		٢
	a Gas Density		
	Vacuum		٢
	Ambient pressure		
	Low Pressure		
	Medium Pressure		٢
	Intrinsically Safe		
	Integral Relay		
	Foam		

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