

# EchoSpan

## Ultrasonic Level Transmitter

### Specifications

Range:	LU81: 8" to 16.4' (20 cm to 5m)
	LU83: 8" to 26.2' (20 cm to 8m)
	LU84: 12" to 32.8' (30 cm to 10m)
Accuracy:	± 0.2% of span in air
Resolution:	LU81/83: 0.039" (1 mm)
	LU84: 0.078" (2 mm)
Beam width:	3" (7.6 cm) dia.
Dead band:	LU81: 8" (20 cm)
	LU83: 8" (20 cm)
	LU84: 12" (30 cm)
Display type:	LCD, 6-digit
Display units:	Inch, cm or percent
Display mode:	Air gap or liquid height
Memory:	Non-volatile
Supply voltage:	12-28 VDC
Loop resist.:	500 Ohms @ 24 VDC
Signal output:	4-20 mA, two-wire
Signal invert:	4-20 mA or 20-4 mA
Calibration:	Push button
Fail-safety:	Selectable 4mA, 20mA, 21 mA, 22 mA or hold
Process temp.:	F: -7° to 140° C: -20° to 60°
Temp. comp.:	Automatic
Electronics temp.:	F: -40° to 160° C: -40° to 71°
Pressure:	30 psi (2 bar) @ 25° C., derated @ 1.667 psi (.113 bar) per °C. above 25° C.
Enclosure rating:	NEMA 4X (IP65)
Enclosure vent:	Water tight membrane
Encl. material:	PC/ABS FR
Trans. material:	PVDF
Process mount:	2" NPT (2" G)
Mount. gasket:	Viton®
Conduit entrance:	Dual, 1/2" NPT
Classification:	General purpose
CE compliance:	EN 61326 EMC



### Description

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



### Features

- ✓ Setup is fast and simple with push button calibration and LCD display
- ✓ Offered in three measurement ranges up to 10m with 2" transducer
- ✓ 6-segment LCD display indicates level in inch or centimeter values
- ✓ 7.6 cm minimum beam width for applications with restricted space
- ✓ Selectable display indicates level in air gap or liquid height
- ✓ PC/ABS enclosure rated NEMA 4X with rugged PVDF transducer
- ✓ Fail-safe intelligence with diagnostic feedback for easy troubleshooting

### EchoSpan

### Ordering

LU   -51  1

#### Sensor range

81	5m (16.4')
83	8m (26.2')
84	10m (32.8')

#### Process mount (1) (2)

0	NPT (US)
6	G (Metric)

#### Ordering Notes

- For installation on open tanks, order the LM50-1001 (2" NPT) or LM50-1061 (2" G) side mount bracket.
- For a liquid tight cable connection, order the LM90-1001 connector.

# EchoSpan

## Ultrasonic Level Transmitter

