

CLARK**EchoSpan® Two-Wire Ultrasonic Level Transmitter**

4-20mA Output, Ranges to 32.8' (10 m)

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 pump applications. Media examples include wastewater and sodium hydroxide.



EchoSpan

SPECIFICATIONS**GENERAL**

Range: LU81: 4" to 16.4' (10 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: 4" (10 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-safe: Select 4mA, 20mA, 21 mA, 22 mA or hold

Process temp.: -4°F to 140°F (-20°C to 60°C)

Temp. comp.: Automatic

Electronics temp.: -40°F to 160°F (-40°C to 71°C)

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®

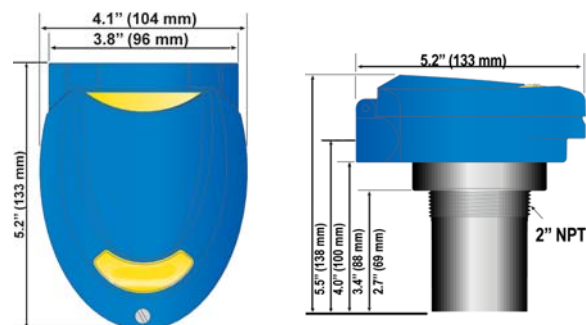
Conduit entrance: Dual, 1/2" NPT

Mounting Gasket: Viton

Approvals: CE, RoHS Compliant

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

DIMENSIONS**ORDERING INFORMATION**

A Model	B Sensor Range	C Factory	D Process
LU	81 = 16.4' (5 m) 83 = 26.2' (8 m) 84 = 32.8' (10m)	51	0 = NPT 6 = G (metric)

Options	
Model	Description
LM50-1001 (2" NPT) or LM50-1061 (2" G) LM90-1001	Side mount bracket for open tanks A liquid tight cable connector