EchoSafe® XP88-89

Ultrasonic Liquid Level Transmitter



Application

The explosion proof ultrasonic transmitter provides continuous level measurement up to 32.8' (10m) with a 4-20 mA signal output, and is configured via its integral push button display module. This non-contact liquid level sensor is well suited for corrosive, sticky or waste liquids, and is selected for bulk storage, day tank and process tank applications located within a classified area.













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- Explosion proof level transmitter for use in hazardous areas
- Offered in 2 measurement ranges from 24.6' (7.5m) to 32.8' (10m)
- Configuration is simple via integral push button display module
- Type 4X aluminum XP windowed enclosure with dual conduit ports
- LCD display indicates level in inches, centimeters or percent of span
- Narrow 3" beam width for applications with limited measurement space
- Rugged PVDF transducer and process mounting plug for corrosive liquids
- Automatic temperature compensation for accurate measurement





Success

Refined chemicals are the building blocks of modern products from plastic to aspirin, paint to fertilizer and clothing to detergent. Worldwide there are 2900 petrochemical plants in



4300 locations that manufacture refined chemicals from petroleum and hydrocarbon based material. Chemical plants are hazardous environments that require explosion proof or intrinsically safe certified instrumentation. Here, an EchoSafe ultrasonic level transmitter is installed on the man-way cover of a below grade wastewater storage tank. Our patented digital signal processing features an industry leading 3" beam width that enables installation next to their 6" suction pipe.

Compatible Products



FLUIDWELL™
Level Indicator

CSA approved explosion proof for hazardous environments, the loop powered level indicator displays engineering units connected in series with one 4-20 mA continuous level transmitter. The windowed enclosure is easily wall mounted.

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Specifications

Range: XP88: 8" to 26.2'

> (20cm to 8m) XP89: 8" to 32.8' (20cm to 10m)

Accuracy: ± 0.2% of range **Resolution:** 0.079" (2mm) Dead band: 8" (20cm) Beam width: 3" (7.6cm) Configuration: Push button Memory: Non-volatile Display type: LCD, 6-digit Display units: Inch, cm, percent,

feet or meter

Supply voltage: 18-28 VDC (loop)

Loop resist.: 250 Ohms max @ 24 VDC

Signal output: 4-20 mA, two-wire Signal invert: 4-20 mA or 20-4 mA

Signal fail-safe: 4 mA, 20mA, 21 mA, 22 mA

or hold last

Process temp.: F: -4° to 140°

C: -20° to 60°

Temp. comp.: Automatic Ambient temp.: F: -40° to 160°

C: -40° to 71°

Pressure: MWP = 30 psi (2 bar)

Enclosure rating: Type 4X Encl. material: Aluminum Window material: Glass

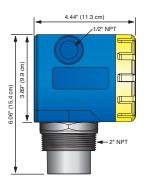
Conduit entrance: Dual, 1/2" NPT

Trans. material: **PVDF Process mount:** 2" NPT Mount gasket: Viton®

Classification: Explosion proof Compliance: CE, RoHS Approvals: FM: Class I, Div I

> Groups A, B, C, D Class II/III, Div I, Groups E, F, G

Dimensions







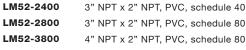
Fittings

For optimum performance, install the level sensor using the below recommended or direct equivalent fittings.

P/N

LM52-2400

DESCRIPTION



3" NPT x 2" NPT, PVC, schedule 80 4" NPT x 2" NPT, PVC, schedule 80



LM52-2410 3" socket x 2" NPT, PVC, schedule 40 LM52-3410 4" socket x 2" NPT, PVC, schedule 40 LM52-2810 3" socket x 2" NPT, PVC, schedule 80 LM52-3810 4" socket x 2" NPT, PVC, schedule 80



LM52-2890 2" NPT bulkhead, PVC



2" ANSI x 2" NPT, CPVC, schedule 80



2" NPT side mount bracket, PP

Ordering

XP8 -0

SENSOR RANGE (1) (2)

- 8m (26.2') 8
- 10m (32.8')

NOTES

LM52-2850

LM50-1001

- Install the level sensor using Flowline installation fittings or equivalents.
- For explosion proof level indication, package the level sensor with the DataKeep indicator.