

Application



Features

- Offered in 4 measurement ranges from 9.8' (3m) to 32.8' (10m)
- Configuration is simple via integral push button display module
- LCD display indicates level in inches, centimeters and percentages
- Narrow 2" or 3" beam width for applications with limited measurement space
- Fail-safe intelligence and diagnostic feedback for simple troubleshooting
- PVDF transducer and NEMA 4X polycarbonate enclosure for corrosive liquids
- Automatic temperature compensation for accurate measurement

The general purpose ultrasonic level 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 noncontact liquid level sensor is ideally suited for corrosive, ultrapure, sticky or dirty liquids, and is broadly selected for bulk storage, day tank, lift station and process tank level applications.



Success



North American thermoelectric power plants use 225M gallons of water per day in their steam turbines and cooling towers. Most US plants are located in

the Coastal and upper Mid West states with easy access to abundant ocean or lake resources. These facilities have lots of sumps that collect and pump transfer water into treatment for reuse or release to the environment. But sumps capture much more than water including grease, oil, chemical and trash, that coats everything in the pit. Here, an EchoSpan ultrasonic level transmitter is installed over the sump man-way. The patented digital signal processing technology features an industry leading 3" beam width that enables installation in close proximity to the ladder and side wall.

Compatible Products

DataLoop™ Level Indicator

DataView™ Level Controller



Commander™ Multi-Tank Level Controller



DataPoint™ Level Controller





LI55

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LU80: 4" to 9.8' (10cm to 3m)

LU81: 8" to 18.0'

LU83: 8" to 26.2' (20cm to 8m)

LU84: 12" to 32.8' (30cm to 10m)

± 0.2% of range

LU80: 4" (10cm)

LU80: 2" (5cm)

Push button

Non-volatile

LCD, 6-digit

12-28 VDC

LU81/83: 8" (20cm) LU84: 12" (30cm)

Inch, cm and percent

500 Ohms @ 24 VDC

4-20 mA, two-wire

4-20 mA, 20-4 mA

4mA, 20mA, 21mA, 22mA or hold last

F: -7° to 140° C: -20° to 60°

C: -40° to 71° MWP = 30 psi (2 bar)

Polycarbonate

Brass & stainless Water tight membrane

LU80: 1" NPT (1" G) LU81/83/84: 2" NPT (2" G)

General purpose

Automatic F: -40° to 160°

Enclosure rating: NEMA 4X (IP65)

Conduit entrance: Dual, 1/2" NPT

PVDF

Viton®

CE, RoHS

(20cm to 5.5m)



3.4" (88 r

0.1

Specifications

Range:

Accuracy:

Resolution:

Dead band:

Beam width:

Configuration:

Display type:

Display units: Supply voltage:

Loop resist.:

Signal output:

Signal invert:

Signal fail-safe:

Process temp.:

Temp. comp.:

Pressure:

Ambient temp.:

Encl. material:

Encl. hardware:

Enclosure vent:

Trans. material:

Process mount:

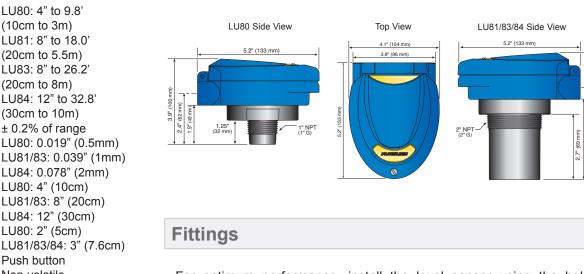
Mount gasket:

Classification:

Compliance:

Memory:

Dimensions



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

	P/N LM52-1400 LM52-2400 LM52-2800 LM52-3800	Description 2" NPT x 1" NPT (Sch. 40) 3" NPT x 2" NPT (Sch. 40) 3" NPT x 2" NPT (Sch. 80) 4" NPT x 2" NPT (Sch. 80)
	LM52-1410 LM52-2410 LM52-3410 LM52-2810 LM52-3810	2" Socket x 1" NPT (Sch. 40) 3" Socket x 2" NPT (Sch. 40) 4" Socket x 2" NPT (Sch. 40) 3" Socket x 2" NPT (Sch. 80) 4" Socket x 2" NPT (Sch. 80)
	LM52-2890	2" NPT Bulkhead Fitting, PVC
C M	LM50-1001-1 LM50-1001	1" NPT Bracket, Polypropylene 2" NPT Bracket, Polypropylene

Ordering

-51 LU8

Notes

1) Install the level sensor using Flowline installation fittings or equivalents.



- 1 5.5m (18.0')
- 3 8m (26.2') 4
- 10m (32.8') Process mount (1)
 - NPT (US) 0
 - G (Metric) 6



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