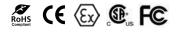
EchoPro[®] LR11

Pulse Radar Liquid Level Transmitter



Application

The intrinsically safe 26 GHz. pulse radar level transmitter provides continuous level measurement up to 32.8' (10m) with a 4-20 mA analog and HART digital signal output, and is configured via its integral push button display module or HART communicator. The non-contact liquid level sensor is intended for chemical or water storage applications in above grade metal or reinforced concrete tanks or below grade tanks of any material. Select this sensor for easy process conditions with corrosive media, light agitation, condensation or vapor, and installation in a low-profile tank adapter or flange fitting. Typical applications include chemical bulk storage and tanker trucks.



Features

- PFA encapsulated antenna and mount for corrosive media
- Configuration via push button display or HART communicator
- 26 GHz. pulse radar is unaffected by vapor or condensation
- 12" (30cm) dead band enables utilization of the entire tank
- LCD displays level in feet or meters with percent of span bar
- Optional display mode indicates the echo signal return curve
- Fail-safe diagnostics with selectable signal fail-safe outputs
- Recognition, storage and rejection of false echo signal returns
- IP67 stainless enclosure with polycarbonate display window

Corrosion Resistance

The US produces 40 million tons of sulfuric acid per year that is widely used in oil refining, wastewater treatment, lead-acid battery and cleaning product applications. In higher concentrations, sulfuric acid is both extremely corrosive and vaporous. The non-contact LR11 sensor is an excellent choice for this application, as its 26 GHz. pulse radar measurement is unaffected by vapor, and the antenna and process mount are encapsulated in corrosion resistant PFA



for years of reliable service. Select this sensor with confidence in corrosive, vaporous applications.



EchoPro[®] LR11

Pulse Radar Liquid Level Transmitter



Specifications

Range:	12"
Frequency:	26
Accuracy:	± 5
Dead band:	12"
Beam angle:	22°
Configuration:	Pus
Memory:	No
Display type:	LCI
Display units:	Fee
Display bar:	Per
Display graph:	Ecł
Supply voltage:	21.
Max. consumption:	22.
Signal output:	4-2
Signal invert:	4-2
Signal fail-safe:	3.9
Process temp.:	F: -
	C: ·
Temp. comp.:	Aut
Storage temp.:	F: -
	C: ·
Pressure:	-14
Enclosure rating:	IP6
Encl. material:	316
	gas
Encl. window mat.:	Pol
Conduit entrance:	(1)
Antenna material:	PF

12" to 32.8' (30cm to 10m) GHz. mm (30cm) sh button, HART 7 n-volatile D, dot matrix et and meters rcent of span ho signal curve .6 to 26.4 VDC .5 mA 0 mA, two-wire, HART 7 20 mA, 20-4 mA mA, 20.5 mA, 22 mA -40° to 266° -40° to 130° tomatic -40° to 176° -40° to 80° .5 to 43.5 psi (-1 to 3 bar) 7 6L stainless steel w/silicone sket and PBT FR neck lycarbonate 1/2" NPT connector A 1-1/2" NPT Intrinsically safe ATEX 😡 IIG Ex ia II C T6...T3 Ga IEC Ex ja IIC T6...T3 Ga CSA Class I, Div 1, Groups A, B, C & D; Class II, Div 1, Groups E, F & G; (T6... T3); Class I Zone 0 AEx ia IIC (T6... T3) Ga & Zone 20 AEx ia IIIC (T76°C to T146°C) Da; Ex ia IIC (T6...T3) Ga & Ex ia IIIC (T76°C to T146°C) Ga FCC CE, RoHS

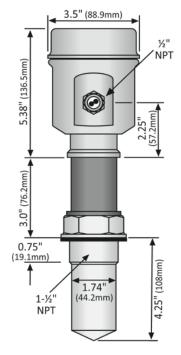
Level Indicator



DATALOOP™ Intrinsically Safe Level Indicator

UL approved intrinsically safe, the loop powered level indicator displays engineering units connected in series with one 4-20 mA level transmitter. Select the LI24-1001 level indicator for hazardous applications with an intrinsically safe sensor. For field mount installation, add a single or two indicator NEMA box.

Dimensions



Fittings

REDUCER BUSHINGS

LM53-2400

2" x 1.5" NPT, PVC, schedule 40 **LM53-2800** 2" x 1.5" NPT, PVC, schedule 80 **LM53-3800** 3" x 1.5" NPT, PVC, schedule 80



LM53-3800



LM53-2800

ANSI FLANGES

LM53-3850 3" x 1.5" NPT, CPVC, schedule 80 LM53-4850 4" x 1.5" NPT, CPVC, schedule 80 LM53-6850 6" x 1.5" NPT, CPVC, schedule 80



LM53-3850

Ordering

Certification:

Compliance:

Process mount:

Classification:

Approvals:

LR11-5421-00

NOTES

- If you want help in selecting a sensor for your application, please go to our website and submit a Level Questionnaire. An engineer will review your requirements and suggest a product solution via email.
- 2) Install the sensor using Flowline installation fittings or equivalents.