CALL TOLL FREE 877-742-2878 FOR SALES AND SUPPORT. CLICK HERE TO RETURN TO WEBSITE

EchoPulse® LR20

Pulse Radar Liquid Level Transmitter

FLOWLINE™ LEVEL BEST

Application

The general purpose 26 GHz. pulse radar transmitter provides continuous level measurement up to 65.6’ (20m) with a 4-20 mA signal output, and is configured via its integral push button display module. The non-contact liquid level sensor is intended for chemical storage or process applications in above or below grade tanks of any material. Select this sensor for challenging process conditions with corrosive media, light surface foam or agitation, higher temperature or pressure, condensation or vapor, and installation in a flange fitting. Typical applications include bulk storage and process tanks.

RoHS Compliant CE FC CRN



LR20-0310-30 Shown

Features

- 316L antenna with PTFE inner shield for corrosive media
- Simple configuration via integral push button display module
- 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
- Auto-temperature compensation for accurate measurement
- Fail-safe diagnostics with selectable signal fail-safe outputs
- Recognition, storage and rejection of false echo signal returns
- Rugged IP67 aluminum enclosure with polycarbonate window

Success

Hydrochloric acid is an inorganic acid that’s widely used in industrial and commercial applications. Both highly corrosive and vaporous, it’s difficult to measure. Here, a LR20 is flange mounted on a 18’ HCL storage tank at a steel fabrication company. Its 26 GHz. pulse radar measurement is un-affected by the extreme vapor, and the antenna’s PTFE inner shield, provides reliable corrosion resistance.





EchoPulse® LR20

Pulse Radar Liquid Level Transmitter

FLOWLINE™ LEVEL BEST

Specifications

Range:	12” to 65.6’ (30cm to 20m)
Frequency:	26 GHz.
Accuracy:	± 3mm
Dead band:	12” (30cm)
Beam angle:	- 30: 12°
	- 40: 8°
Configuration:	Push button
Memory:	Non-volatile
Display type:	LCD, dot matrix
Display units:	Feet and meters
Display bar:	Percent of span
Display graph:	Echo signal curve
Supply voltage:	16-26 VDC
Max. consumption:	22.5 mA
Signal output:	4-20 mA, two-wire
Signal invert:	4-20 mA, 20-4 mA
Signal fail-safe:	3.9 mA, 20.5 mA, 22 mA
Process temp.:	F: -40° to 302°
	C: -40° to 150°
Temp. comp.:	Automatic
Storage temp.:	F: -40° to 176°
	C: -40° to 80°
Pressure:	-14.5 to 72 psi (-1 to 5 bar)
Enclosure rating:	IP67
Encl. material:	Aluminum w/silicone gasket
Encl. window mat.:	Polycarbonate
Conduit entrance:	(1) 1/2” NPT connector
	(1) M20 x 1.5 plug
Antenna material:	316L w/PTFE inner shield
Process mount:	- 30: 3” flange (ANSI)
	- 40: 4” flange (ANSI)
Classification:	General purpose
Certification:	cTUVus
	FCC
Compliance:	CE, CRN, RoHS

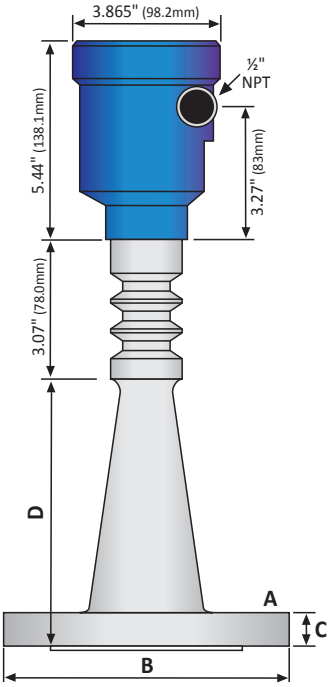
Dimensions

ANTENNA / FLANGE

P/N	-30	-40
A	3” ANSI	4” ANSI
B	7.5” (190.5mm)	9.0” (228.6mm)
C	0.88” (22.3mm)	0.88” (22.3mm)
D	6.5” (165mm)	8.0” (203mm)



Echo Signal Return Curve Shown



Compatible Products



LI25

DATALOOP™

Level Indicator



LI55

DATAVIEW™

Level Controller

Ordering

LR20-0310- ☐ **0**

FLANGE SIZE (1)

3	3” ANSI
4	4” ANSI



NOTES

1) 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.