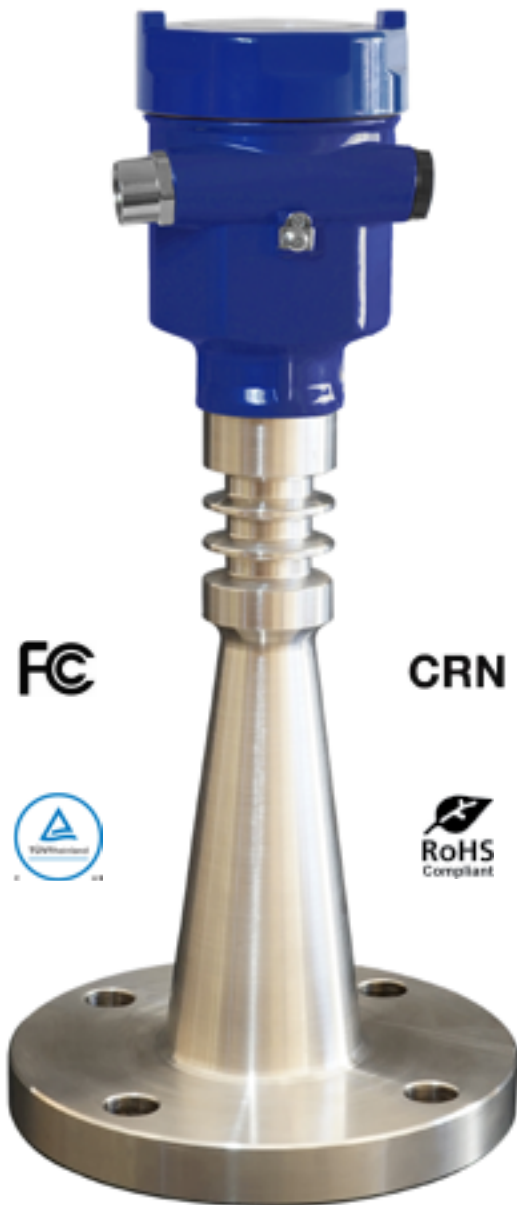


## Product



LR20-0310-30  
Shown



## Application

The general purpose 26 GHz. pulse radar level transmitter provides continuous level measurement up to 98.4' (30m) 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 application conditions with corrosive media, light surface foam or agitation, higher temperature or pressure, condensation or vapor, and installation in a flange fitting. Offered in two antenna sizes, select the appropriate size based upon the desired beam angle, available mounting port size and process condition. The longer the antenna, the narrower the beam width and stronger the RF signal output for more challenging processes.

## Features

- ✓ 316 L 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

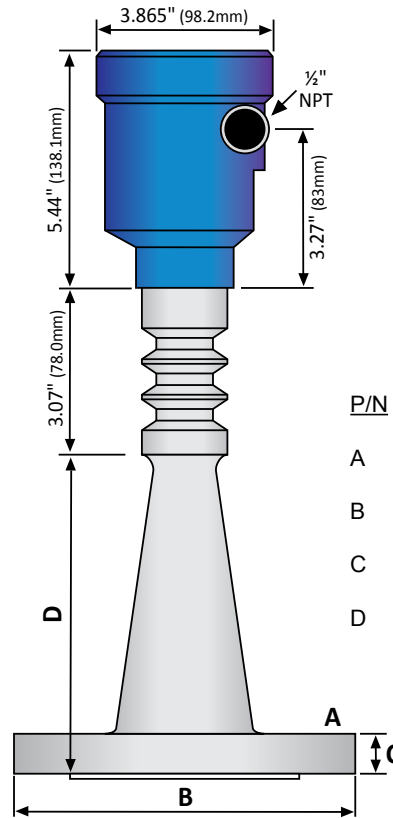
Hydrochloric acid is an inorganic acid that's widely used in industrial and commercial applications. Both highly corrosive and vaporous, it's difficult to measure. Here, a LR20 is flange mounted on a 18' HCL storage tank at a steel fabrication company. Its 26 GHz. pulse radar measurement is unaffected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



## 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:	316 L 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



P/N	Antenna / Flange	
	- 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)

## Indicator & Controller

DataLoop™ Indicator



LI25 Series

DataView™ Controller



LI55 Series

## Ordering

LR20-0310-0<sub>(1)</sub>

Flange size (1)  
3 3" ANSI  
4 4" ANSI



LR20-0310-30 Shown

### Notes

- To select a radar sensor for distributor purchase, please go to [www.flowline.com/LAQ](http://www.flowline.com/LAQ) and submit a level application questionnaire for review. You will receive a suggested part number and comments based on your requirements.