

Product

**FC****CE**

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 remote push button display module. The non-contact liquid level sensor is intended for industrial wastewater, municipal storm or sewer lift station, reservoir, river, canal or flume applications located below or above grade. Select this sensor for challenging application conditions that may include light surface foam or agitation, small trash or plant material, wind, condensation or vapor. Each comes with a 32.8' (10m) cable, mounting bracket and display module. The sensor is intended for bracket mount or conduit mount installation suspended above the liquid level.

Features

- ✓ Rugged IP68 sensor enclosure with 316 L mounting bracket
- ✓ Simple configuration via remote push button display module
- ✓ 26 GHz. pulse radar is unaffected by sump process conditions
- ✓ Wall mounted display with windowed enclosure rated IP67
- ✓ 12" (30cm) dead band enables utilization of the entire sump
- ✓ 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

Success

Industrial and municipal pump lift stations collect and transfer wastewater into treatment. These waste receptacles are very dynamic environments that may contain dirt, grease, oil, agitation, sludge, foam, condensation, chemicals or vapor. Here, a LR30 is bracket mounted to the top side wall of a 16' sump. Its 26 GHz. pulse radar measurement is unaffected by the challenging process conditions.



Specifications

Sensor

Range: 12" to 98.4' (30cm to 30m)
 Frequency: 26 GHz.
 Accuracy: ± 3 mm
 Dead band: 12" (30cm)
 Beam angle: 12°
 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 212°
 C: -40° to 100°

Temp. comp.: Automatic
 Pressure: Atmospheric
 Enclosure rating: IP68
 Encl. material: Nylon
 Cable type: 6-conductor, shielded
 Cable length: 32.8' (10m)
 Cable jacket mat.: PVC
 Process mount: 304 bracket or 1" NPT

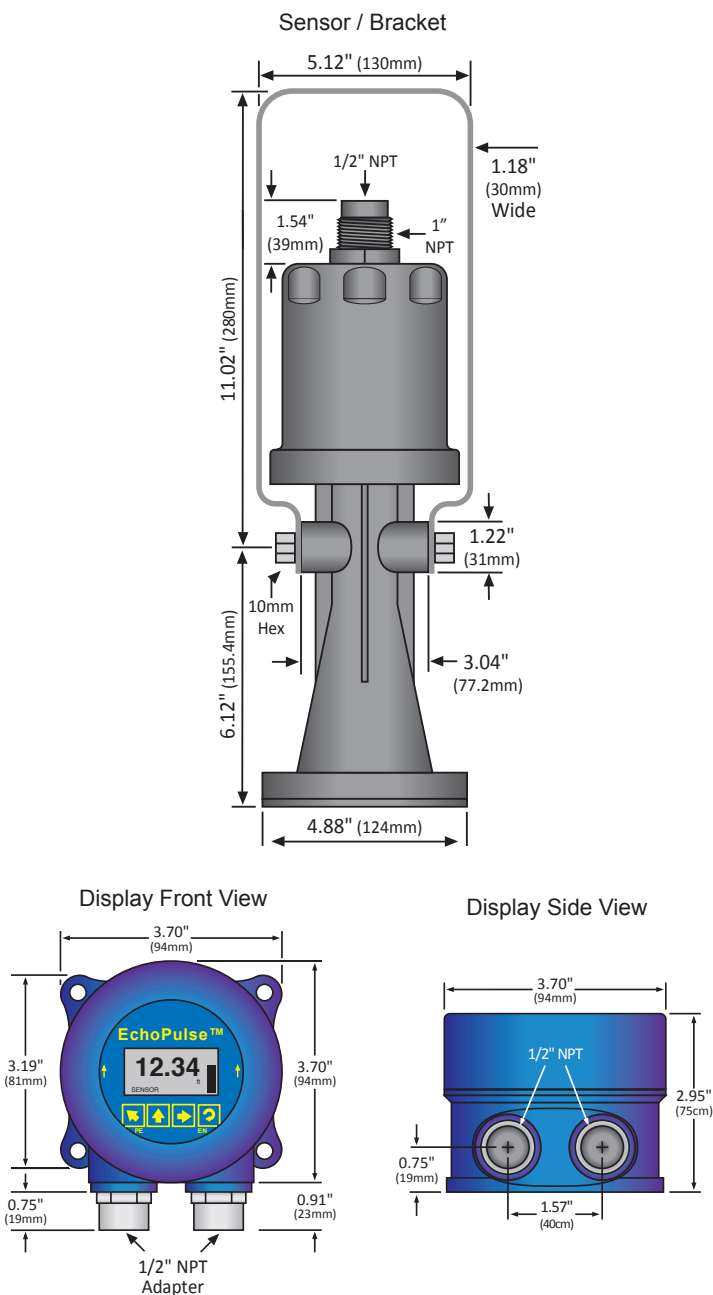
Display

Display type: LCD, dot matrix
 Display units: Feet and meters
 Display bar: Percent of span
 Display graph: Echo signal curve
 Configuration: Push button
 Enclosure type: Wall mount
 Enclosure rating: IP67
 Encl. material: Polycarbonate
 Conduit entrance: (2) 1/2" NPT connectors

Common

Memory: Non-volatile
 Storage temp.: F: -40° to 176°
 C: -40° to 80°
 Classification: General purpose
 Certification: cTUVus, FCC
 Compliance: CE, RoHS

Dimensions



Ordering

LR30-0010-10 ^{(1) (2)}



Sensor



Display

Notes

- 1) To select a radar sensor for distributor purchase, please go to 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.
- 2) Includes the sensor, bracket, cable and display.