# EchoPro<sup>®</sup> LR36

Pulse Radar Solids Level Transmitter



FLOWLI

Ex C

#### **Application**

The intrinsically safe 26 GHz. pulse radar transmitter provides continuous level measurement up to 49.2' (15m) with a 4-20 mA analog and HART digital signal output, and is configured via its integral push button display module or WebCal software. The non-contact solids level sensor is intended for dry solid media including aggregates, grains, pellets, powders and building materials. Select this sensor for easy process conditions with minimal dust and installation with an adjustable mounting bracket or gimbal flange. Typical applications include bins, transfer stations and crushers.





LR36-5021-40-00

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#### **Features**

- Rugged 316L stainless steel antenna and process mount
- Configuration via push button display or WebCal software
- Gimbal flange for easy positioning with the angle of repose
- LCD displays level in feet or meters with percent of span bar
- HART communication in point to point and multi-drop modes
- 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

## **Mounting Bracket**

The LR97-S006 mounting bracket allows you to easily install and adjust the sensor angle for optimum placement relative to the materials angle of repose in installations without an enclosed top. Constructed of 304 stainless steel, the rugged bracket is widely used in crusher, transfer station, stockpile or open top bin applications.





LR36-5321-44-00 Shown

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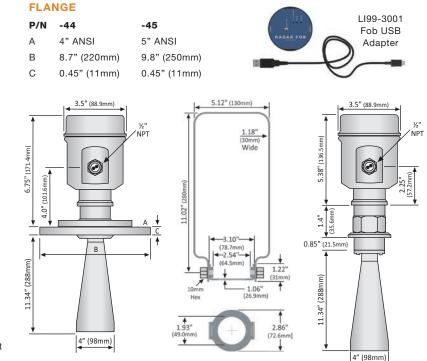
Pulse Radar Solids Level Transmitter



## **Specifications**

Signal output:         4-20 mA, two-wire, HART 7           Signal invert:         4-20 mA, 20-4 mA           Signal fail-safe:         3.9 mA, 20.5 mA, 22 mA           Process temp.:         F: -40° to 392°           C: -40° to 200°         C: -40° to 200°
Signal fail-safe:         3.9 mA, 20.5 mA, 22 mA           Process temp.:         F: -40° to 392°
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C: -40° to 200°
Temp. comp.: Automatic
Storage temp.: F: -40° to 176°
C: -40° to 80°
<b>Pressure:</b> -40: -14.5 to 580 psi (-1 to 40 bar)
-44 & -45: Atmospheric
Enclosure rating: IP67
<b>Encl. material:</b> 316L stainless steel w/silicone gasket
Encl. window mat.: Polycarbonate
<b>Conduit entrance:</b> (1) 1/2" NPT connector
Antenna material: 316L
<b>Process mount:</b> -40: 1 1/2" NPT
-44: 4" gimbal flange (ANSI)
-45: 5" gimbal flange (ANSI)
Classification: Intrinsically safe
Approvals (pending):       ATEX I III C Ex ia III C T76° CT146° C Da         IEC Ex ia III C T76° CT146° C Da         CSA Class I, Div 1, Groups A, B, C & D;         Class II, Groups E, F & G; Class I Zone 0         IIC & Zone 20 Group IIC         Certification:
Compliance: CE, RoHS

# **Dimensions**



#### Level Indicator



FM and CSA approved intrinsically safe, the loop powered level indicator displays engineering units connected in series with one 4-20 mA level transmitter. Select the LI25-2001 level indicator for hazardous applications with an intrinsically safe sensor. For field mount installation, add a single or two indicator NEMA box.

#### **DATALOOP™** Intrinsically Safe Level Indicator

## Ordering

MOUNT TYPE (1) (2) -NPT thread 0 3 ANSI flange MOUNT SIZE (3) 1 1/2" NPT 0

LR36-5

21-4

-0

#### 4 4" gimbal flange

5 5" gimbal flange

#### FOB USB ADAPTER (4)

- Without Fob 0
- 1 With Fob

#### 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.
- For bracket mount installations, order the 0 mount type, 0 mount size and 2) purchase a LR97-S006 mounting bracket.
- The 0 mount size is compatible with the 0 mount type. The 4 and 5 mount 3) sizes are compatible with the 3 mount type.
- Sensors are offered with or without a LI99-3001 Fob USB adapter. If you 4) want to configure the sensor using our free WebCal software, you need one Fob, which can be used with any EchoPro sensor.