EchoPro® LR36
Pulse Radar Solids Level Transmitter

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 HART communicator. 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.

Features
- Rugged 316L stainless steel antenna and process mount
- Configuration via push button display or HART communicator
- Gimbal flange for easy positioning with the angle of repose
- 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

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.
**EchoPro® LR36**

**Pulse Radar Solids Level Transmitter**

### Specifications

**Range:**
- 12" to 49.2' (30cm to 15m)

**Frequency:**
- 26 GHz.

**Accuracy**
- ± 10mm

**Dead band:**
- 12" (30cm)

**Beam angle:**
- 8º

**Configuration:**
- Push button, HART 7

**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:**
- 21.6 to 26.4 VDC

**Max. consumption:**
- 22.5 mA

**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: -40º to 176º

**Temp. comp.:**
- Automatic

**Storage temp.:**
- F: -40º to 80º

**Pressure:**
- -40: -14.5 to 580 psi (-1 to 40 bar)
- -44 & -45: Atmospheric

**Enclosure rating:**
- IP67

**Encl. material:**
- 316L stainless steel w/silicone gasket

**Encl. window mat.:**
- Polycarbonate

**Conduit entrance:**
- (1) 1/2" NPT connector

**Antenna material:**
- 316L

**Process mount:**
- -40: 1 1/2" NPT

**Classification:**
- Intrinsically safe

**Approvals:**
- ATEX IIG Ex ia II C T6...T3 Ga
- IEC Ex ia 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 IIC (T76ºC to T146ºC) Da;
- Ex ia IIC (T6...T3) Ga & Ex ia IIC (T76ºC to T146ºC) Ga

**Certification:**
- FCC

**Compliance:**
- CE, RoHS

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### Dimensions

**FLANGE**

**P/N**
- A: 4" ANSI
- B: 8.7" (220mm)
- C: 0.45" (11mm)

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### 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.**

**LI24-1001**

**DATALOOP™ Intrinsically Safe Level Indicator**

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**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.

2) For bracket mount installations, order the 0 mount type, 0 mount size and purchase a LR97-S006 mounting bracket.

3) The 0 mount size is compatible with the 0 mount type. The 4 mount sizes are compatible with the 3 mount type.

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**Ordering**

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**MOUNT TYPE**

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**MOUNT SIZE**

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