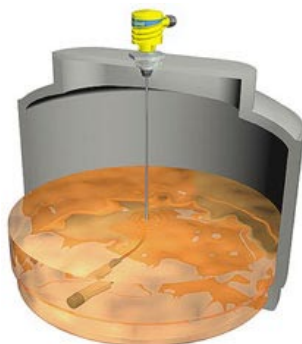


## Application



LD31



The intrinsically safe submersible pressure level transmitter provides continuous level measurement up to 46' (14m) of water column with a 4-20 mA signal output. Select the LD31 liquid level sensor for relatively clean water, light weight oil or diluted chemical. Application examples include wet wells and water remediation.



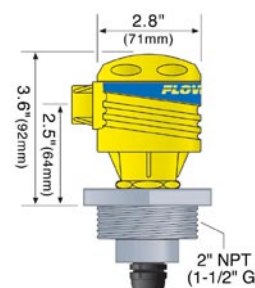
## Features

- ✓ Corrosion resistant 316 SS transducer with polyurethane or ETFE cable
- ✓ Strong cable design with maintenance free breather tube and vent filter
- ✓ Automatic temperature compensation for accurate measurement

## Key Benefits

- ✓ Ideal for applications with heavy foam and vapors
- ✓ Connects directly to PLC/SCADA or display
- ✓ 4-20 mA output relation only
- ✓ Pressure is not affected by specific gravity

## Accessories



### Submersible Pressure Sensor Mounting Kit w/ Junction Box

LD90-1001	Term-Strip, 2" NPT Plug, PP
LD90-1061	Term-Strip, 2" G Plug, PP
LD90-5001	Term-Strip, 2" NPT Plug, PVDF
LD90-5061	Term-Strip, 2" G Plug, PVDF

### AC-DC Sensor & Indicator Power Supply



LC95-1001	100-240 VAC, 24 VDC @ 0.60A, 35mm Rail
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## Compatible Products

### DataLoop™ IS Level Indicator



LI25-2001

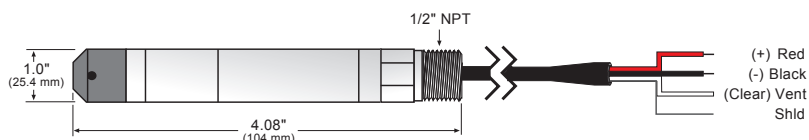
## Application

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

## Specifications

Range:	-SX01: 0 to 5 psi (0.34 bar), 0 to 11' (0 to 3.4m) wc
	-SX11: 0 to 10 psi (0.69 bar), 0 to 23' (0 to 7m) wc
	-SX21: 0 to 15 psi (1.0 bar), 0 to 34' (0 to 10.4m) wc
	-SX31: 0 to 20 psi (1.38 bar), 0 to 46' (0 to 14m) wc
Accuracy:	± 0.25% of full scale
Configuration:	None, fixed span
Supply voltage:	10 to 28 VDC
Loop resist.:	900 Ohms @ 28 VDC
Signal output:	4-20 mA, two-wire
Process temp.:	F: 0° to 176° C: -18° to 80°
Temp. comp.:	F: 0 to 176° C: -18 to 80°
Proof pressure:	2 x full scale
Weight:	2.2 lb (1.0 kg)
Trans. rating:	NEMA 6 (IP67)
Trans. material:	316 SS, 316L SS, Buna-N & PVC
Trans. thread:	1/2" NPT
Cable type:	2-conductor, shielded with vent tube
Cable length:	-SX01 & SX11: 40' (12.2m) -SX21 & SX31: 60' (18.3m)
Cable material:	-S3X1: Polyurethane -S4X1: ETFE
Classification:	Intrinsically safe Class I Div. 1 Groups A, B, C & D; Class II Div. 1 Groups E, F & G; Class III Div. 1 T4 @ 80 °C ambient
Compliance:	CE, UL Intrinsically safe to UL standard 913 IEC 61000-4-2:2001 IEC 61000-4-3:2006 IEC 61000-4-4:2004 IEC 61000-4-5:2005 IEC 61000-4-6:2006 IEC 61000-4-8:2001 CENELEC EN 55011:2003 CENELEC EN 61326:2003 89/336/EEC EMC Directive
Parameters:	Vmax = 28 VDC Imax = 93 mA Ci = 0.051_F Li = 240_H Pi = 0.651_W

## Dimensions



## Fittings

For optimum performance, install the level sensor using the below recommended or direct equivalent fittings. For use with LD90.

	P/N	Description
	LM52-2400	3" NPT x 2" NPT (Sch. 40)
	LM52-2800	3" NPT x 2" NPT (Sch. 80)
	LM52-3800	4" NPT x 2" NPT (Sch. 80)
	LM52-2410	3" Socket x 2" NPT (Sch. 40)
	LM52-3410	4" Socket x 2" NPT (Sch. 40)
	LM52-2810	3" Socket x 2" NPT (Sch. 80)
	LM52-3810	4" Socket x 2" NPT (Sch. 80)
	LM52-2890	2" NPT Bulkhead Fitting, PVC
	LM52-2850	2" NPT Flange - 150# (Sch. 80)
	LM50-1001	2" NPT Bracket, Polypropylene

## Ordering

LD31-S       1

### Cable jacket (1) (2)

3 Polyurethane

4 ETFE

### Sensor range

- 0 5 psi (0.34 bar) / 11' (3.4m) wc
- 1 10 psi (0.69 bar) / 23' (7m) wc
- 2 15 psi (1.0 bar) / 34' (10.4m) wc
- 3 20 psi (1.38 bar) / 46' (14m) wc

### Notes

- To install the level sensor through the tank top with a compact junction box, 2" mounting plug and cable connector, order the submersible pressure sensor mounting kit.
- Add the LB11-1001 intrinsic safety barrier to complete your intrinsically safe level measurement package.