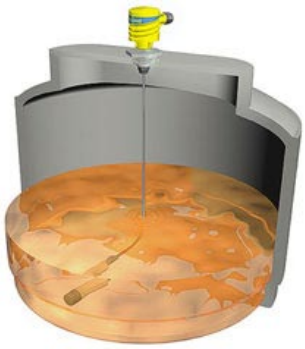
DeltaSpan™ LD32 IS Submersible Pressure Level Transmitter

Application



LD32

The intrinsically safe submersible pressure level transmitter is offered in two styles for different liquid types and provides continuous level measurement up to 46’ (14m) of water column with a 4-20 mA signal output. Select the LD32 liquid level sensor for dirty, foaming or slurry type liquids. Application examples include municipal sewer or storm pump lift stations.

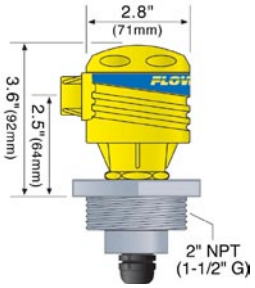
Features

- Corrosion resistant 316 SS transducer with polyurethane or ETFE cable
- Strong cable design with maintenance free breather tube and vent filter
- Rugged clog and damage resistant diaphragm design
- 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

Compatible Products

DataLoop™ IS
Level Indicator

LI25-2001

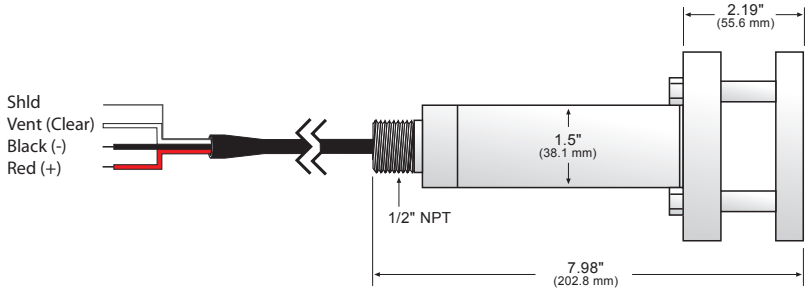
Application

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
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
Response time:		50ms
Weight:		4.3 lb (2.0 kg)
Trans. rating:		NEMA 6 (IP67)
Trans. material:		316 SS, 316L SS, Buna-N
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 (IS) -S4X1: ETFE (IS)
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 ºC 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

LD32-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

1) 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.
2) Add the LB11-1001 intrinsic safety barrier to complete your intrinsically safe level measurement package.