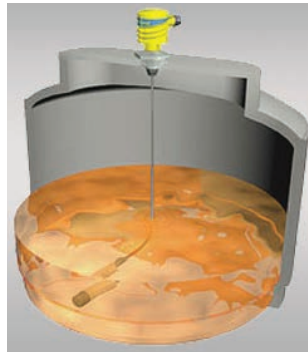


Application



LD31



The intrinsically safe LD31 clean water and oil 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 water and lubricant storage.



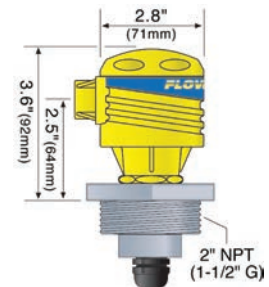
Features

- ✓ Strong cable design with maintenance free breather tube and vent filter
- ✓ Corrosion resistant 316 SS transducer with polyurethane or ETFE cable
- ✓ Temperature compensation, lightning and surge protection for reliable measurement

Key Benefits

- ✓ Simple installation via suspended cable
- ✓ Ideal for applications with heavy foam and vapor
- ✓ Connects directly to PLC/SCADA or display
- ✓ Fixed span does not require any calibration

Accessories



Submersible Pressure Sensor Mounting Kit w/ Junction Box

LD90-1001	Term-Strip, 2" NPT Plug, PP
LD90-1061	Term-Strip, 1-1/2" G Plug, PP
LD90-5001	Term-Strip, 2" NPT Plug, PVDF
LD90-5061	Term-Strip, 1-1/2" G Plug, PVDF

AC-DC Sensor & Indicator Power Supply



LC95-2001

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

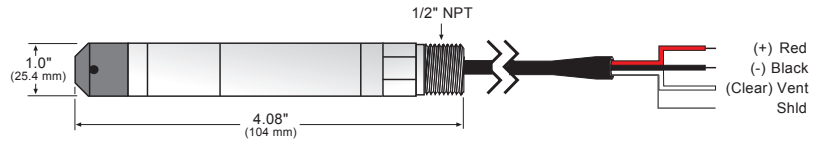
Accuracy: ± 0.25% of full scale
 Configuration: None, fixed span
 Supply voltage: 10 to 28 VDC
 Loop resist.: 900 Ohms @ 28 VDC
 Signal output: 4-20 mA, two-wire
 Process temp.: F: 0° to 176°
 C: -18° to 80°
 Temp. comp.: F: 0 to 176°
 C: -18 to 80°

Proof pressure: 2 x full scale
 Weight: 2.2 lb (1.0 kg)
 Sensor material: 316 SS, 316L SS,
 Buna-N & PVC
 Sensor 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 = 240uH
 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
	LD90-3000	Desiccant Filter
	LD90-S000	Cable Hanger

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

- 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.