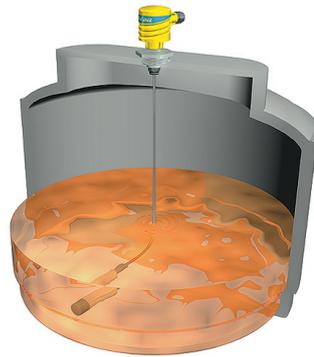


## Application



LD34



The general purpose LD34 small-bore submersible pressure level transmitter provides continuous level measurement up to 100' (30.4m) of water column with a 4-20 mA signal output. Select the LD34 liquid level sensor for relatively clean water. Application examples include ballast tanks, ground water monitoring, surface water monitoring, dewatering, down hole, and remediation.



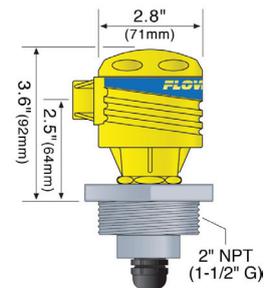
## Features

- ✓ Welded 316 SS body and 316 SS nose cap provide years of trouble free service
- ✓ Tapered body top prevents damage or snaring when removing from installation
- ✓ Incorporates lighting and surge protection.
- ✓ Provides precise output readings with its  $\pm 0.25\%$  of full scale accuracy

## Key Benefits

- ✓ Ideal for applications with heavy foam and vapors
- ✓ Connects directly to PLC/SCADA or display
- ✓ Comes with a polyurethane cable and is vented for barometric pressure compensation
- ✓ Maintenance-free vent filter prevents water droplets and other particulates from fouling transmitter

## 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™ Level Indicator



LI25

### DataView™ Level Controller



LI55

### Commander™ Multi-Tank Level Controller



LI90

### DataPoint™ Level Controller



LC52

### Specifications

Range:

- SX01: 0 to 5 psi (0.34 bar), 0 to 11.55' (0 to 3.5m) wc
- SX11: 0 to 6.5 psi (0.45 bar), 0 to 15' (0 to 4.6m) wc
- SX21: 0 to 8.6 psi (0.60 bar), 0 to 20' (0 to 6.1m) wc
- SX31: 0 to 13 psi (0.90 bar), 0 to 30' (0 to 9.1m) wc
- SX41: 0 to 21.6 psi (1.49 bar), 0 to 50' (0 to 15.2m) wc
- SX51: 0 to 43.3 psi (2.99 bar), 0 to 100' (0 to 30.5m) wc

Service: Compatible liquids

Accuracy: ± 0.25% of full scale

Configuration: None, fixed span

Supply voltage: 10 to 33 VDC

Loop resist.: 1000 Ohms @ 30 VDC

Signal output: 4-20 mA, two-wire

Process temp.:

- F: -4° to 176°
- C: -20° to 80°

Temp. comp.:

- F: 0° to 158°
- C: -18° to 70°

Thermal effect: ±0.45% FS TEB

Proof pressure: 2 x full scale

Response time: <50ms

Body weight: 0.235 lb (0.107 kg)

Cable weight: 0.037lb (0.0009 kg) per foot

Body and Nose: 316 SS

Seals: Fluroelastomer

Trans. thread: 1/2" NPT

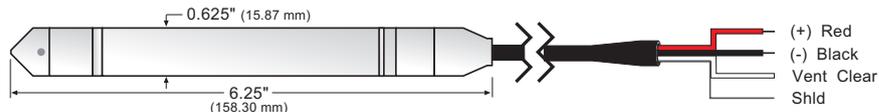
Cable type: 2-conductor, shielded with vent tube

Cable length:

- S101 & S111: 40' (12.2m)
- S121 & S131: 60' (18.3m)

Cable material: Polyurethane

### 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

### Ordering

LD34-S1    1

**Sensor range (1)**

- 0 5 psi (0.34 bar) / 11.55' (3.5m) wc
- 1 6.5 psi (0.45 bar) / 15' (4.6m) wc
- 2 8.6 psi (0.60 bar) / 20' (6.1m) wc
- 3 13 psi (0.90 bar) / 30' (9.1m) wc
- 4 21.6 psi (1.49 bar) / 50' (15.2m) wc
- 5 43.3 psi (2.99 bar) / 100' (30.5m) 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.