

DeltaSpan™ LD32

Submersible Lift Station Pressure Liquid Level Transmitter



Application

The LD32 general purpose lift station submersible pressure level transmitter provides continuous liquid level measurement up to 34.65' (10.5m) of water column with a 4-20 mA signal output. Offered in three level measurement ranges, select the appropriate model based on your sump depth. For convenient installation in a sump, package your level sensor with the pressure sensor cable hanger. The hanger mounts at the top of the sump and provides an easy way to suspend, lock, adjust or remove the sensor via the cable. The LD32 level sensor is well suited for dirty liquids compatible with 316 SS and polyurethane such as sewer, storm water and wastewater.

Features

- Clog resistant diaphragm and heavy duty shield
- Robust 316 stainless sensor with polyurethane cable
- Maintenance-free vent tube and filter ensure accuracy
- Mounting kit for easy sensor suspension within the sump
- Integral surge protection for lightning strikes or power surges
- Automatic temperature compensation for reliable measurement

Cable Hanger

The pressure sensor cable hanger provides a convenient way to suspend, lock, adjust or remove your sensor via the cable in lift stations, sumps or reservoirs.



Compatible Products



LI23 Series

DATA-LOOP™ LEVEL INDICATOR

The general purpose loop powered tank or silo level indicator displays engineering units connected in series with one 4-20 mA continuous level transmitter, and is available with two optional relays and an isolated 4-20 mA repeater. Select this panel mount indicator for use with general purpose two-wire level sensors.



LI55 Series

DATA-VIEW™ LEVEL CONTROLLER

The general purpose AC or DC powered tank or silo level controller displays engineering units with one 4-20 mA level transmitter and is offered in three configurations with optional two or four programmable relays and an isolated 4-20 mA repeater. Each relay can be configured on a single set point as a high or low level alarm, or latched on two set points for automatic fill or empty control in simplex or duplex modes. Select this panel mount controller for use with general purpose two or three-wire level sensors.

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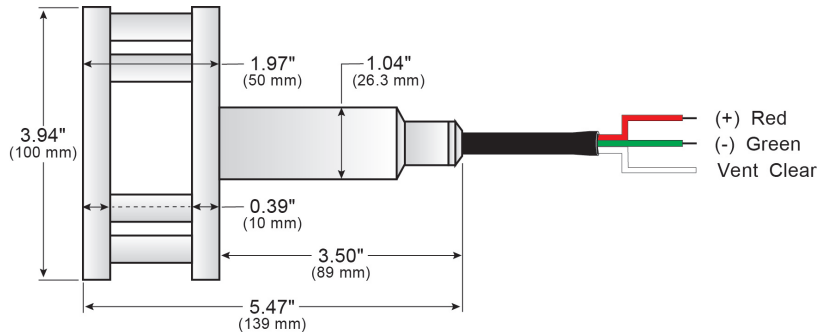
Submersible Lift Station Pressure Liquid Level Transmitter



Specifications

Range:	-S_01: 0 to 5 psi (0.34 bar) or 0 to 11.55' (0 to 3.5m) wc
	-S_11: 0 to 10 psi (0.69 bar) or 0 to 23.1' (0 to 7.0m) wc
	-S_21: 0 to 15 psi (1.0 bar) or 0 to 34.65' (0 to 10.6m) wc
Accuracy:	± 0.25% of full scale
Configuration:	None, fixed span
Supply voltage:	11 to 28 VDC
Loop resistance:	900 Ohms @ 30 VDC
Signal output:	4-20 mA, two-wire
Process temp.:	F: 14° to 176°
	C: -10° to 80°
Temp. comp.:	Automatic
Burst pressure:	2 x full scale
Response time:	50ms
Sensor material:	316 stainless steel
Enclosure rating:	NEMA 6P (IP68)
Cable type:	2-conductor, shielded with filtered vent tube
Cable material:	PUR (polyurethane)
Cable length:	-S101 & S111: 40' (12.2m)
	-S121: 60' (18.3m)
Classification:	General purpose
Compliance:	CE, RoHS

Dimensions



Fittings

For ease of installation and optimum performance, install the level sensor using the below recommended or direct equivalent fittings.

Mounting Kit

The pressure sensor mounting kit makes installation easy. Route the cable through the liquid tight connector, drop the sensor into the sump and terminate in the junction box.



P/N

LD90-1001

LD90-1061

LD90-5001

LD90-5061

DESCRIPTION

Pressure mounting kit, 2" NPT plug, PP

Pressure mounting kit, 1½" G plug, PP

Pressure mounting kit, 2" NPT plug, PVDF

Pressure mounting kit, 1½" G plug, PVDF



LM52-2890

2" NPT bulkhead fitting, PVC

LM52-3890

3" NPT bulkhead fitting, PVC



LM52-2850

2" x 2" NPT flange, PVC, schedule 80

LM52-3850

3" x 3" NPT flange, PVC, schedule 80



LM52-2400

3" x 2" NPT reducer, PVC, schedule 40



LM50-5000

Pressure cable hanger, SS & PVC



LD90-3000

Desiccant filter

Ordering

LD32-S1 ☐ 1

SENSOR RANGE (1)

- | | |
|----------|--------------------------------------|
| 0 | 5 psi (0.34 bar) / 11.55' (3.5m) wc |
| 1 | 10 psi (0.69 bar) / 23.10' (7.0m) wc |
| 2 | 15 psi (1.0 bar) / 34.65' (10.6m) wc |

NOTES

- 1) Select the appropriate sensor range based on your lift station, sump or reservoir.