

# DeltaSpan™ LD31

Submersible General Purpose Pressure Liquid Level Transmitter



## Application

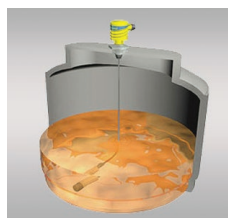
The LD31 general purpose submersible pressure level transmitter provides continuous liquid level measurement up to 34.65' (10.5m) of water column with a 4-20 mA signal output. Offered in three level measurement ranges, select the appropriate model based on your tank height or well depth. For convenient installation with junction box termination, package your level sensor with the pressure sensor mounting kit. Each kit includes a junction box with terminal strip, mounting plug and liquid tight cable connector. The LD31 level pressure sensor is well suited for clean liquids compatible with 316 SS and polyurethane such as well water and diluted chemicals.

## Features

- Rugged sensor designed for complete submergibility
- 316 stainless steel sensor body with polyurethane cable
- Maintenance-free vent tube with filter ensures accuracy
- Mounting kit for easy install and conduit wiring termination
- Integral surge protection for lightning strikes or power surges
- Automatic temperature compensation for reliable measurement

## Mounting Kit

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



## 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.

# DeltaSpan™ LD31

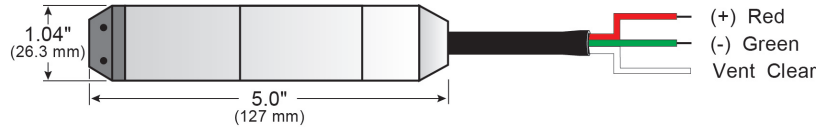
Submersible General Purpose Pressure Liquid Level Transmitter



## Specifications

<b>Range:</b>	-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
<b>Accuracy:</b>	± 0.25% of full scale
<b>Configuration:</b>	None, fixed span
<b>Supply voltage:</b>	11 to 28 VDC
<b>Loop resistance:</b>	900 Ohms @ 30 VDC
<b>Signal output:</b>	4-20 mA, two-wire
<b>Process temp.:</b>	F: 14° to 176° C: -10° to 80°
<b>Temp. comp.:</b>	Automatic
<b>Burst pressure:</b>	2 x full scale
<b>Response time:</b>	50ms
<b>Sensor material:</b>	316 stainless steel, Buna-N, PVC
<b>Enclosure material:</b>	NEMA 6P (IP68)
<b>Cable type:</b>	2-conductor, shielded with filtered vent tube
<b>Cable material:</b>	PUR (polyurethane)
<b>Cable length:</b>	-S101 & S111: 40' (12.2m) -S121: 60' (18.3m)
<b>Classification:</b>	General purpose
<b>Compliance:</b>	CE, RoHS

## Dimensions



## Fittings

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

	P/N	DESCRIPTION
	<b>LD90-1001</b>	Pressure mounting kit, 2" NPT plug, PP
	<b>LD90-1061</b>	Pressure mounting kit, 1 1/2" G plug, PP
	<b>LD90-5001</b>	Pressure mounting kit, 2" NPT plug, PVDF
	<b>LD90-5061</b>	Pressure mounting kit, 1 1/2" G plug, PVDF
	<b>LM52-2890</b>	2" NPT bulkhead fitting, PVC
	<b>LM52-3890</b>	3" NPT bulkhead fitting, PVC
	<b>LM52-2850</b>	2" x 2" NPT flange, PVC, schedule 80
	<b>LM52-3850</b>	3" x 3" NPT flange, PVC, schedule 80
	<b>LM52-2400</b>	3" x 2" NPT reducer, PVC, schedule 40
	<b>LM50-5000</b>	Pressure cable hanger, SS & PVC
	<b>LD90-3000</b>	Desiccant filter

## Cable Hanger

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

## Ordering

LD31-S1 ☐ 1

### SENSOR RANGE (1)

<b>0</b>	5 psi (0.34 bar) / 11.55' (3.5m) wc
<b>1</b>	10 psi (0.69 bar) / 23.10' (7m) wc
<b>2</b>	15 psi (1.0 bar) / 34.65' (10.6m) wc

## NOTES

- 1) Select the appropriate sensor range based on your tank height or well depth.