DeltaSpan™ LD36

Submersible Liquid Level and Temperature Pressure Transmitter

FLOWLINE™ LEVEL BEST

Application

The LD36 dual purpose submersible liquid level and temperature pressure transmitter provides continuous liquid level measurement up to 34.65' (10.5m) of water column and temperature measurement from -40° to 257° F. (-40° to 125° C.) with a dual 4-20 mA signal output. For convenient installation with junction box termination, package your sensor with the pressure sensor mounting kit. Each kit includes a junction box with terminal strip, mounting plug and liquid tight cable connector. The LD36 level sensor is well suited for clean liquids compatible with 316 SS and polyurethane such as process water and diluted chemicals.

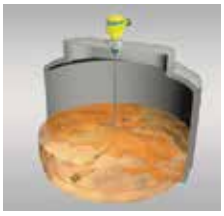


Features

- Level and temperature measurement in one sensor
- 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 tank install and conduit 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 sensor cable through the liquid tight connector, drop the sensor through 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.

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Specifications

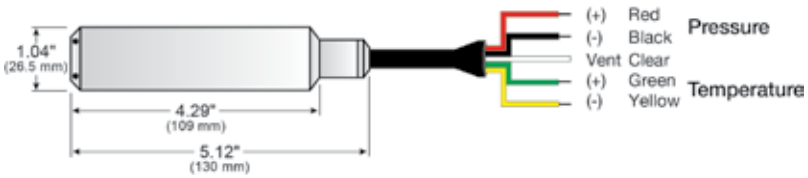
Range:	-S_21: 0 to 15 psi (1.0 bar) or 0 to 34.65' (0 to 10.6m) wc
Accuracy:	± 0.25% of full scale
Configuration:	None, fixed span
Supply voltage:	11 to 28 VDC
Loop resistance:	900 Ohms @ 30 VDC
Signal output:	Dual two-wire, 4-20 mA
Process temp.:	F: 14° to 176° C: -10° to 80°
Temp. comp.:	Automatic
Burst pressure:	2 x full scale
Response time:	Pressure: 50ms Temperature: 3 minutes
Sensor material:	316 stainless steel, PVC
Enclosure rating:	NEMA 6P (IP68)
Cable type:	4-conductor, shielded with filtered vent tube
Cable material:	PUR (polyurethane)
Cable length:	60' (18.3m)
Classification:	General purpose
Compliance:	CE, RoHS

Cable Hanger

The pressure cable hanger provides a convenient way to suspend, lock, adjust or remove your sensor via the cable in a sump or reservoir.



Dimensions



Fittings

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

	P/N	DESCRIPTION
	**LD90-1001**	Pressure mounting kit, 2" NPT plug, PP
	LD90-1061	Pressure mounting kit, 1½" G plug, PP
	**LD90-5001**	Pressure mounting kit, 2" NPT plug, PVDF
	LD90-5061	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

LD36-S1 ☐ 1

SENSOR RANGE (1)

2 15 psi (1.0 bar) / 34.65' (10.6m) wc

NOTES

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