**DeltaSpan™ LD31 GP Clean Water & Oil Pressure Level Transmitter**

**Application**

The general purpose 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 reservoirs and ponds.

**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

**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™** Level Indicator
- **DataView™** Level Controller
- **Commander™** Multi-Tank Level Controller
- **DataPoint™** Level Controller

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DeltaSpan™ LD31 GP Clean Water & Oil Pressure Level Transmitter

Specifications

Range:
- SX01: 0 to 5 psi (0.34 bar),
  0 to 11’ (0.34 bar),
- SX11: 0 to 10 psi (0.69 bar),
  0 to 23’ (0.7 bar),
- SX21: 0 to 15 psi (1.0 bar),
  0 to 34’ (1.0 bar),
- SX31: 0 to 20 psi (1.38 bar),
  0 to 46’ (1.38 bar)

Accuracy: ± 0.25% of full scale

Configuration: None, fixed span

Supply voltage: 13 to 30 VDC

Loop resist.: 900 Ohms @ 30 VDC

Signal output: 4-20 mA, two-wire

Process temp.: F: 0° to 150°
  C: -18° to 66°

Temp. comp.: F: 0 to 150°
  C: -18 to 66°

Proof pressure: 2 x full scale

Response time: 50 ms

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: -S1X1: Polyurethane
  -S2X1: ETFE

Classification: General purpose

Compliance: CE

Dimensions

For optimum performance, install the level sensor using the below recommended or direct equivalent fittings. For use with LD90.

Fittings

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  

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.