**DeltaSpan™ LD32 IS** Pump Lift Station Pressure Level Transmitter

**Application**

The intrinsically safe submersible pressure level transmitter is offered in two styles for different liquid types and provides continuous level measurement up to 46' (14m) of water column with a 4-20 mA signal output. Select the LD32 liquid level sensor for dirty, foaming or slurry type liquids. Application examples include municipal sewer or storm pump lift stations.

**Features**

- Rugged clog resistant diaphragm with heavy duty protection shield
- Strong cable design with maintenance free breather tube and vent filter
- Corrosion resistant 316 SS body and shield 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™ IS Level Indicator**

**Application**

Offered in FM and CSA approved intrinsically safe classification, the loop powered level indicator displays engineering units connected in series with one 4-20 mA continuous level transmitter. Select the LI25-2001 level indicator for hazardous applications with an intrinsically safe sensor. For field mount installation, add a single or dual indicator NEMA box.
DeltaSpan™ LD32 IS Pump Lift Station Pressure Level Transmitter

Specifications

<table>
<thead>
<tr>
<th>Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-SX01: 0 to 5 psi (0.34 bar), 0 to 11' (0 to 3.4m) wc</td>
<td>3&quot; NPT x 2&quot; NPT (Sch. 40)</td>
</tr>
<tr>
<td>-SX11: 0 to 10 psi (0.69 bar), 0 to 23' (0 to 7m) wc</td>
<td>3&quot; NPT x 2&quot; NPT (Sch. 80)</td>
</tr>
<tr>
<td>-SX21: 0 to 15 psi (1.0 bar), 0 to 34' (0 to 10.4m) wc</td>
<td>3&quot; Socket x 2&quot; NPT (Sch. 40)</td>
</tr>
<tr>
<td>-SX31: 0 to 20 psi (1.38 bar), 0 to 46' (0 to 14m) wc</td>
<td>3&quot; Socket x 2&quot; NPT (Sch. 80)</td>
</tr>
<tr>
<td>-SX41: 0 to 25 psi (1.72 bar), 0 to 60' (18.3m) wc</td>
<td>4&quot; NPT x 2&quot; NPT (Sch. 40)</td>
</tr>
</tbody>
</table>

Accuracy: ± 0.25% of full scale
Configuration: None, fixed span
Supply voltage: 10 to 28 VDC
Loop resist.: 900 Ohms
Signal output: 4-20 mA, two-wire
Process temp.: F: 0° to 176°
Temp. comp.: C: -18° to 80°
Proof pressure: 2 x full scale
Response time: 50ms
Weight: 4.3 lb (2.0 kg)
Sensor material: 316 SS, 316L SS, Buna-N
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)
- SX41: 80' (24.4m)
Cable material: -SX1: Polyurethane (IS)
- SX41: ETFE (IS)
Classification: Intrinsically safe
Class I Div. 1 Groups A, B, C & D; Class II Div. 1 Groups E, F & G; Class III Div. 1
Compliance: T4 @ 80 °C ambient
CE, UL Intrinsically safe to UL standard 913
IEC 61000-4-2:2001
IEC 61000-4-3:2006
IEC 61000-4-4:2004
IEC 61000-4-5:2005
IEC 61000-4-6:2006
IEC 61000-4-8:2001
CENELEC EN 55011:2003
CENELEC EN 61326:2003
89/336/EEC EMC Directive
Parameters: Vmax = 28 VDC
Imax = 93 mA
C1 = 0.051 F
L1 = 240 uH
Pi = 0.651 W

Dimensions

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

<table>
<thead>
<tr>
<th>P/N</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LM52-2400</td>
<td>3&quot; NPT x 2&quot; NPT (Sch. 40)</td>
</tr>
<tr>
<td>LM52-2800</td>
<td>3&quot; NPT x 2&quot; NPT (Sch. 80)</td>
</tr>
<tr>
<td>LM52-3800</td>
<td>4&quot; NPT x 2&quot; NPT (Sch. 80)</td>
</tr>
<tr>
<td>LM52-2410</td>
<td>3&quot; Socket x 2&quot; NPT (Sch. 40)</td>
</tr>
<tr>
<td>LM52-3410</td>
<td>4&quot; Socket x 2&quot; NPT (Sch. 40)</td>
</tr>
<tr>
<td>LM52-2810</td>
<td>3&quot; Socket x 2&quot; NPT (Sch. 80)</td>
</tr>
<tr>
<td>LM52-3810</td>
<td>4&quot; Socket x 2&quot; NPT (Sch. 80)</td>
</tr>
<tr>
<td>LM52-2890</td>
<td>2&quot; NPT Bulkhead Fitting, PVC</td>
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<tr>
<td>LM52-2850</td>
<td>2&quot; NPT Flange - 150# (Sch. 80)</td>
</tr>
<tr>
<td>LM50-1001</td>
<td>2&quot; NPT Bracket, Polypropylene</td>
</tr>
<tr>
<td>LD90-3000</td>
<td>Desiccant Filter</td>
</tr>
<tr>
<td>LD90-S000</td>
<td>Cable Hanger</td>
</tr>
</tbody>
</table>

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.
2) Add the LB11-1001 intrinsic safety barrier to complete your intrinsically safe level measurement package.

Ordering

LD32-S  

Cable jacket (1) (2)  
3 Polyurethane  
4 ETFE  
Sensor range  
0 5 psi (0.34 bar) / 11’ (3.4m) wc  
1 10 psi (0.69 bar) / 23’ (7m) wc  
2 15 psi (1.0 bar) / 34’ (10.4m) wc  
3 20 psi (1.38 bar) / 46’ (14m) wc  

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