DeltaSpan™ LD34 GP Water Small Bore Pressure Level Transmitter

Application

The general purpose LD34 small-bore submersible pressure level transmitter provides continuous level measurement up to 100’ (30.4m) of water column with a 4-20 mA signal output. Select the LD34 liquid level sensor for down hole monitoring of relatively clean water. Application examples include ground water, surface water, dewatering, ballast tanks and remediation.

Features

- Strong cable design with maintenance free breather tube and vent filter
- Narrow tapered body designed for easy down hole installation and removal
- Corrosion resistant 316 SS body with fluoroelastomer seal and polyurethane 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

Compatible Products

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

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Specifications

Range:
- SX01: 0 to 5 psi (0.34 bar), 0 to 11.55' (0 to 3.5m) wc
- SX11: 0 to 6.5 psi (0.45 bar), 0 to 15' (0 to 4.6m) wc
- SX21: 0 to 8.6 psi (0.60 bar), 0 to 20' (0 to 6.1m) wc
- SX31: 0 to 13 psi (0.90 bar), 0 to 30' (0 to 9.1m) wc
- SX41: 0 to 21.6 psi (1.49 bar), 0 to 50' (0 to 15.2m) wc
- SX51: 0 to 43.3 psi (2.99 bar), 0 to 100' (0 to 30.5m) wc

Accuracy: ± 0.25% of full scale
Configuration: None, fixed span
Supply voltage: 10 to 33 VDC
Loop resist.: 1000 Ohms @ 30 VDC
Signal output: 4-20 mA, two-wire
Process temp.: F: -4° to 176° C: -20° to 80°
Temp. comp.: F: 0° to 158° C: -18° to 70°
Thermal effect: ±0.45% FS TEB
Proof pressure: 2 x full scale
Response time: <50ms
Sensor weight: 0.235 lb (0.107 kg)
Cable weight: 0.037 lb (0.0009 kg) per foot
Sensor material: 316 SS
Seal material: Fluoroelastomer
Cable type: 2-conductor, shielded, with vent tube
Cable length: - S101 & S111: 40' (12.2m)
- S121 & S131: 60' (18.3m)
Cable material: Polyurethane
Classification: General purpose
Compliance: CE

Dimensions

Fittings

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

LD34-S1 1

Sensor range (1)

<p>| | | | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>0</td>
<td>5 psi</td>
<td>(0.34 bar) / 11.55' (3.5m) wc</td>
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</tr>
<tr>
<td>1</td>
<td>6.5 psi</td>
<td>(0.45 bar) / 15' (4.6m) wc</td>
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<tr>
<td>2</td>
<td>8.6 psi</td>
<td>(0.60 bar) / 20' (6.1m) wc</td>
<td></td>
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<tr>
<td>3</td>
<td>13 psi</td>
<td>(0.90 bar) / 30' (9.1m) wc</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>21.6 psi</td>
<td>(1.49 bar) / 50' (15.2m) wc</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>43.3 psi</td>
<td>(2.99 bar) / 100' (30.5m) wc</td>
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</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.