100 Series
Continuous Submersible Level Sensor

LP100 Junction Box

Sold Separately



VaporBloc®

Features

- Higher Accuracy: ±0.5%
- Superior Chemical/Corrosion Resistance
- PVC | PP | PVDF | 316 SS | PTFE Teflon®
- Teflon® Jacketed Cable
- Kalrez® O-Ring Seal
- Works on Foam | Vapor | Turbulence | Condensate
- Integrally Molded Internal Weight | No Floating
- IP68 | NEMA 4X Enclosure

The Solution to Tough Applications Where Ultrasonic Sensors Simply DO NOT WORK!

The LevelPro® 100 Series continuous submersible level transmitter and tank level junction box are a perfect pair for applications where ultrasonic sensors aren't going to work.

Accurately measure tank levels with this rugged combination that's simple to use and boasts superior chemical resistance along with industry exclusive features.

100 Series

Ceramic Sensing Diaphragm



Teflon® Jacketed Cable



Displays

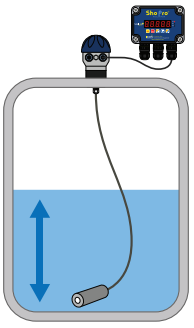
The 100 Series can be connected to one of our many displays or to an existing PLC.

ShoPro® SP100 Series

- All in One Controller
- NEMA 4X Enclosure + Cord Grip
- Power Supply Output: 24 VDC
- Optional Audio & Visual Alarms



Sold Separately



PVC | PP | PVDF | PTFE | 316SS

RoHS Compliant CE

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100 Series
Continuous Submersible Level Sensor

Specifications

Input Pressure Range	
Level ft/H_2O	14 | 20 | 34 | 54 *Consult Factory for Levels > 54 ft
Overpressure | Psi	210 | 290 | 290 | 380

Output Signal | Supply	
Output Signal	4-20mA | 4-20mA + Hart 2 Wire | 0.5-4.5 VDC Ratiometric | 0-5 VDC | RS-485 3 Wire
Power Supply	9–36 VDC | 0.5–4.5VDC | 5VDC

Performance	
Accuracy	<±0.5% of FS
Permissible Load	Rmax = [(Vs-Vsmin)/0.02 A]Ω
Influence Effects	Supply: 0.05% Full Scale/10V | Load: 0.05% Full Scale/KΩ
Long Term Stability	<± 0.1% Full Scale over One Year
Response Time	<10 msec

Thermal Effects | Offset and Span	
Thermal Drift	<± 0.02% FSO/K in Compensated Range | -20 – 170°F

Permissible Temperatures	
Storage/Media Temperatures	PVC: 32°F – 140°F | PP: -20°F – 170°F | PVDF: -40°F – 170°F | PTFE: -40°F – 170°F | 316 SS: -40°F – 170°F

Electrical Protection	
Short-Circuit Protection	Permanent
Reverse Polarity Protection	No Damage to Sensor
Electromagnetic Compatibility	Emission Immunity According to EN 61326

Electrical Connection	
Jacketed Cable	PTFE | Teflon -40 – 200°F
3-Wire Cable with Integrated Air Tube for Reference to Atmospheric Pressure	

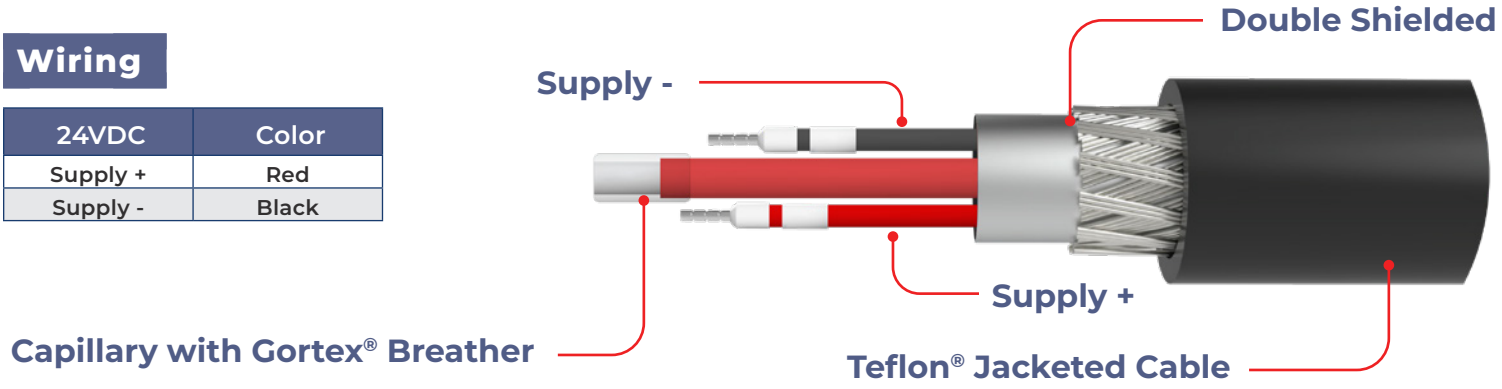
Materials | Wetted	
Housing	PVC | PP | PVDF | PTFE | 316 SS
Seal	FFKM - Kalrez®
Diaphragm	Pure Ceramic 96% Al203 | 316 SS

General	
Current Consumption	Max. 25mA
Weight | Grams	PVC | 575g | PP | 475g | PVDF | 825g | PTFE 875g | 316 SS | 875g
Ingress Protection	IP 68 | NEMA 4X
CE-Conformity	EMC Directive: 2004 | 108 | EC

*Contact Factory for different options

Wiring

24VDC	Color
Supply +	Red
Supply -	Black



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Model Selection

191 - [1401] - [A] 1133 [05]

Range (ft/H_2O)	Housing	Cable Length
1401: 14.0 **1201:** 20.0 **1001:** 34.0 **4001:** 54.0	**A:** PVC **B:** PP **E:** PVDF **T:** PTFE **SS:** 316 SS	**05:** 5m **15:** 15m (Consult factory for additional lengths)



Frequently Ordered With:

LP100

Levelpro LP100 Series Junction Box, PP Material, Viton VaporBloc®, NEMA 4X, 2" NPT Connection, Gortex Breather



SP100

Levelpro ShoPro Series LED Display & Controller, 4-20mA Input, NEMA 4X Enclosure, Wall Mount, 120VAC



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