

LevelPro® — 100 Series

Submersible Level Sensor Transmitter



LP100 Junction Box

Sold Separately

Features

- ✓ Higher Accuracy: $\pm 0.5\%$
- ✓ 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 sensor 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



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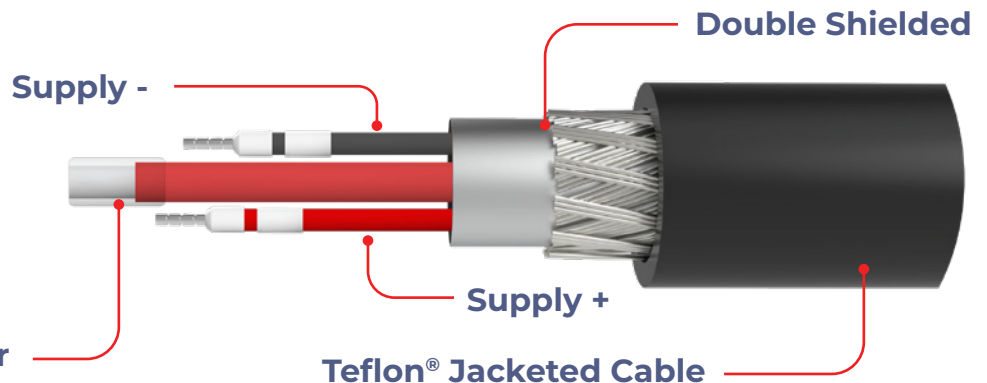
Specifications

Input Pressure Range	
Level ft/H ₂ O	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	$R_{max} = [(V_s - V_{smin}) / 0.02 A] \Omega$
Influence Effects	Supply: 0.05% Full Scale/10V Load: 0.05% Full Scale/K Ω
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% Al ₂ O ₃ 316 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



Capillary with Gortex® Breather

Teflon® Jacketed Cable

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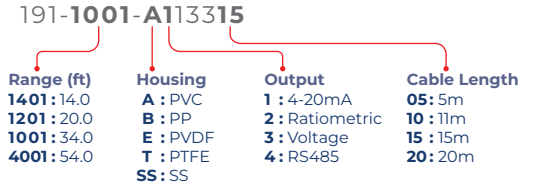
Model Selection

100 Series Submersible Level Sensor

- Teflon® Jacketed Cable
- FFKM Kalrez® O-ring Seal
- High Accuracy: ±0.5%
- Ceramic Sensing Diaphragm
- Molded Integral Weight — No Floating
- PVC | PP | PVDF | 316 SS | PTFE Teflon®
- 4-20mA | 4-20mA + Hart 2 Wire | 0.5-4.5 VDC Ratiometric | 0-5 VDC | RS485 3 Wire



100 Series Submersible Level Sensor		
Size	Part Number	Material
0-34ft 11m	191-1001-A113315	PVC
0-34ft 11m	191-1001-B113315	PP
0-34ft 11m	191-1001-E113315	PVDF
0-34ft 11m	191-1001-T113315	PTFE
0-34ft 11m	191-1001-SS113315	316 SS



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

Optional Audio & Visual Alarms

