

DATA SHEET





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LevelPro® — 100 Series Submersible Level Sensor Transmitter

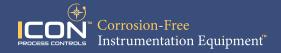






LevelPro® — 100 Series

Submersible Level Sensor Transmitter



- Works on Foam | Vapor | Turbulence | Condensate
- Ceramic Sensing Diaphragm
- Integrally Molded Internal | Weight No Floating

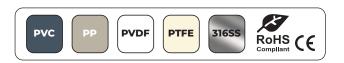


A Submersible Level Sensor for the Toughest Industrial Applications.

The 100 Series Submersible Level Sensor Transmitters are designed to provide an accurate and continuous level measurement for both corrosive and non-corrosive liquids.

Featuring an integrally molded weight, the 100 Series sensor is engineered to sit and remain at the bottom of the tank while measuring the head pressure of the liquid pushing down on its ceramic diaphragm.

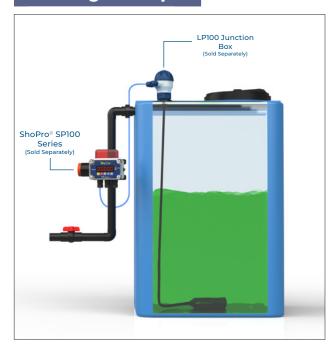
Aside from being the industry's simplest and most reliable level sensor, the 100 Series is the perfect solution for tough applications where ultrasonics will not perform.



Features

- → High Accuracy: ±0.5%
- **⊘** Superior Chemical/Corrosion Resistance
- PVC | PP | PVDF | 316 SS | PTFE Teflon®
- ✓ Teflon® Jacketed Cable

Working Principle



Model Selection

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

191-**1001-A1**133**15** Range (ft) Housing Output Cable Length A:PVC B:PP **1401:** 14.0 1:4-20mA **05:**5m 1201:20.0 2: Ratiometric **10:**11m E:PVDF 1001:34.0 3: Voltage 15:15m 4001:54.0 ss:ss

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Technical 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	Rmax = $[(Vs-Vsmin)/0.02 A]\Omega$
Influence Effects	Supply: 0.05% Full Scale/10V Load: 0.05% Full Scale/ΚΩ
Long Term Stability	<± 0.1% Full Scale over One Year
Response Time	<10 msec

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

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

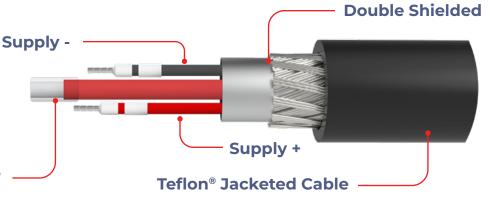
General	
Current Consumption	Max. 25mA
Weight Grams	PVC: 575g PP: 475g PVDF: 825g PTFE: 875g 316 SS: 875g
Ingress Protection	IP 68 NEMA 4X
CE-Conformity	EMC Directive: 2004 108 EC

^{*}Contact Factory for different options

Wiring

24VDC	Color
Supply +	Red
Supply -	Black





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LevelPro® — 100 Series

Submersible Level Sensor Transmitter



LP100 Junction Box



SP100 Level Display

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

LP100 Junction Box

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

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

The LevelPro® 100 Series 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.







VaporBloc® Technology

VaporBloc® Eliminates Vapor from Entering Junction Box

- Blocks Out Corrosive Chemical Fumes
- Pressure Tested to 75 Psi
- Protects Internal Wiring Connections

Displays

The 100 Series can be easily 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