### Continuous Submersible Level Sensor



#### **LP100 Junction Box**



#### **Features**

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



**VaporBloc®** 

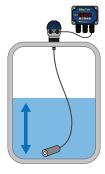
#### Displays

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

















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## **100 Series**

### **Continuous Submersible Level Sensor**



### Specifications

Input Pressure Range		
Level ft/H <sub>2</sub> 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/KΩ
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 – 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	

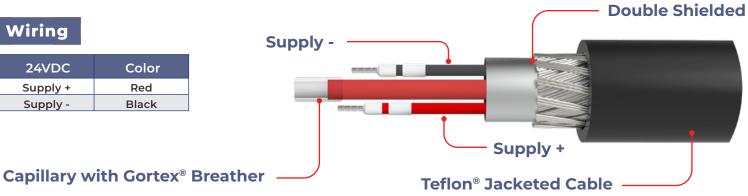
Materials   Wetted	
Housing	PVC   PP   PVDF   PTFE   316 SS
Seal	FFKM - Kalrez®
Diaphragm	Pure Ceramic 96% AI203   316 SS

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

<sup>\*</sup>Contact Factory for different options

### Wiring

24VDC	Color
Supply +	Red
Supply -	Black



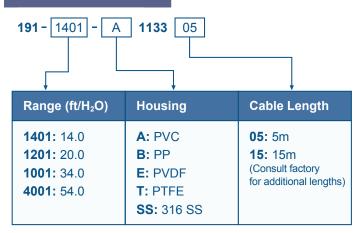
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### 100 Series

### **Continuous Submersible Level Sensor**



### **Model Selection**





### 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

