

LevelPro® — 300S Series

Submersible Level Sensor Transmitter

ICON™ Corrosion-Free
PROCESS CONTROLS Instrumentation Equipment

LevelPro®

LP100 Junction Box

Sold Separately



Eliminates Vapor From Entering Junction Box

Features

- ✓ Higher Accuracy: $\pm 0.5\%$
- ✓ 316 SS — Superior Chemical/Corrosion Resistance
- ✓ Teflon® Jacketed Cable
- ✓ Kalrez® (FFKM) O-Ring Seal
- ✓ Works on Foam | Vapor | Turbulence | Condensate
- ✓ No Floating

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

The LevelPro® 300S 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.

300S Series

316SS Sensing Diaphragm

Teflon® Jacketed Cable

(300Sxi)

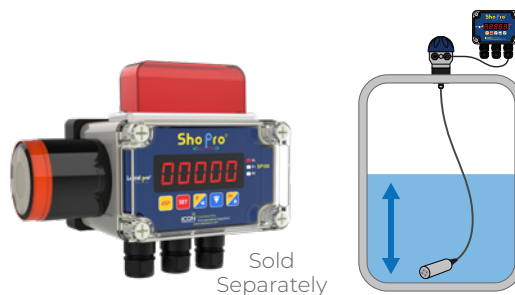


Displays

The 300 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



FFKM

PTFE

316SS

RoHS
Compliant



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Specifications

LevelPro®

Input Pressure Range

Level ft/H ₂ O	14 20 34 54	*Consult Factory for Levels > 34 ft
Overpressure Psi	210 290	

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	24 VDC 5VDC

Performance

Accuracy	<±0.5% of FS
Permissible Load	Current 2-wire — $R_{max} = [(V_s - V_{smin}) / 0.02 A] \Omega$ Voltage 3-wire — $R_{min} = 10K\Omega$
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 -13°F – 178°F -25°C – 85°C
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Permissible Temperatures

Storage/Media Temperatures	-25°C – 85°C
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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 – 180°F
3-Wire Cable with Integrated Air Tube for Reference to Atmospheric Pressure	

Materials | Wetted

Housing	316L SS
Seal	Welded 316L SS
Diaphragm	316L SS

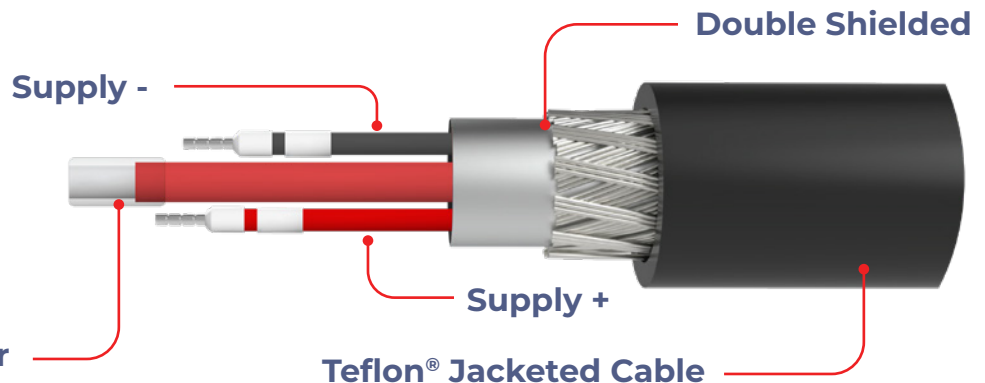
General

Current Consumption	Max. 25mA
Weight Grams	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



LevelPro® — 300S Series

Submersible Level Sensor Transmitter

Model Selection



300S Submersible Level Sensor

- High Accuracy: $\pm 0.5\%$
- Teflon® Jacketed Cable
- FFKM Kalrez® O-ring
- 316 SS Sensing Diaphragm
- Excellent for:
Foam | Vapor | Condensate | Turbulence



300S Submersible Level Sensor			
Size	Part Number	Output	
0-34ft 11m	300S-1010-A-11	4-20mA	
0-34ft 11m	300S-1010-R-11	Ratiometric	
0-34ft 11m	300S-1010-V-11	Voltage	
0-34ft 11m	300S-1010-RS-11	RS485	
0-34ft 11m	300Sxi-1010-A-11	4-20mA	
0-34ft 11m	300Sxi-1010-R-11	Ratiometric	
0-34ft 11m	300Sxi-1010-V-11	Voltage	
0-34ft 11m	300Sxi-1010-RS-11	RS485	

300S-1001-A-11

- Range (ft)
1401 : 14.0
1201 : 20.0
1001 : 34.0
4001 : 54.0
- Output
A : 4-20mA
R : Ratiometric
V : Voltage
RS : RS485
- Cable Length
05 : 5m
10 : 11m
15 : 15m
20 : 20m



300Sxi-1001-A-11 (xi = Explosion Proof)

- Range (ft)
1401 : 14.0
1201 : 20.0
1001 : 34.0
4001 : 54.0
- Output
A : 4-20mA
R : Ratiometric
V : Voltage
RS : RS485
- Cable Length
05 : 5m
10 : 11m
15 : 15m
20 : 20m

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

