

LevelPro® — 300S Series

Submersible Level Sensor Transmitter

ICON™ Corrosion-Free
PROCESS CONTROLS Instrumentation Equipment™

LP100 Junction Box

Sold
Separately



Eliminates Vapor From
Entering Junction Box

Teflon®
Jacketed Cable

Bird Cage



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

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 Bird Cage

The Bird Cage version of the 300S integrates a heavy-duty stainless steel protective cage directly into the sensor body. This reinforced design shields the sensing diaphragm from debris, solids, and mechanical impact while maintaining unrestricted flow to the pressure port.

Engineered for harsh level-measurement environments, the cage-style housing prevents clogging and ensures reliable long-term operation in wastewater, sludge, slurries, and lift-station applications.

- ✓ Integrated stainless steel cage housing
- ✓ Clog-resistant open-frame design
- ✓ Impact-resistant construction

LevelPro® — 300S Series

Submersible Level Sensor Transmitter

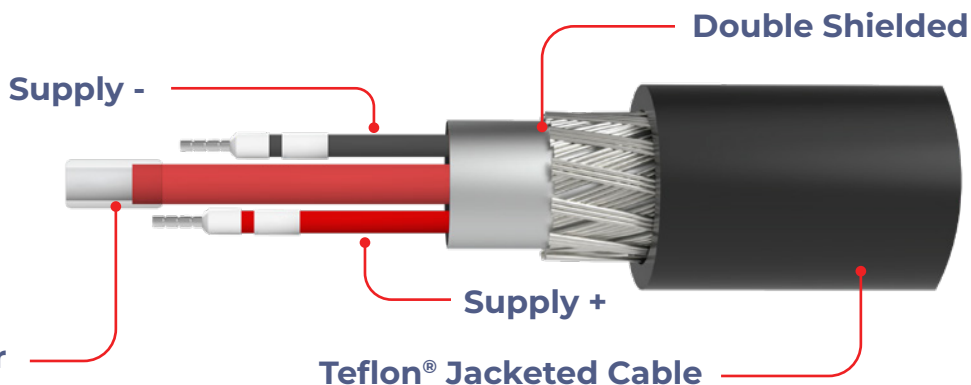
Specifications

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	<10ms
Thermal Effects Offset and Span	
Thermal Drift	<± 0.02% FSO/K in Compensated Range -13°F – 178°F -25°C – 85°C
Permissible Temperatures	
Storage/Media Temperatures	-25°C – 85°C
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	IP68 NEMA 4X
CE-Conformity	EMC Directive: 2004 108 EC
Certification (300Sxi model)	ATEX Rated

*Contact Factory for different options

Wiring

24VDC	Color
Supply +	Red
Supply -	Black



Capillary with Gortex® Breather

Teflon® Jacketed Cable

LevelPro® — 300S Series

Submersible Level Sensor Transmitter

Model Selection



300S



300S Bird Cage



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

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	

Add suffix "-T" for temperature reading version

300S-1001-A-11-N4

Range (ft) or Range (Psi)

1401 : 14.0

1201 : 20.0

1001 : 34.0

4001 : 54.0

1005 : 5.0

1010 : 10.0

1020 : 20.0

1050 : 50.0

Output

A : 4-20mA

R : Ratiometric

V : Voltage

RS : RS485

H : 4-20mA + HART

Cable Length

05 : 5m

11 : 11m

15 : 15m

20 : 20m

(OPTIONAL)

End Connection

N4 : ¼ NPT

N2 : ½ NPT

F : Flanged (Bird Cage)

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



FFKM

PTFE

316SS



RoHS

Compliant



CE



SP

US