

LevelPro® — TankPro® Series Submersible Level Sensor Transmitter

ICON[®] Corrosion-Free
PROCESS CONTROLS Instrumentation Equipment™



LevelPro®

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ICON™ Corrosion-Free
PROCESS CONTROLS Instrumentation Equipment™



Features

- ✓ Higher Accuracy: $\pm 0.5\%$
- ✓ Superior Chemical/Corrosion Resistance
- ✓ PVC | PP | PVDF | 316 SS | PTFE Teflon®
- ✓ Teflon® Jacketed Cable
- ✓ Kalrez® O-Ring Seal
- ✓ 14ft Measuring Range
- ✓ 4-20mA Loop Powered
- ✓ Works on Foam | Vapor | Turbulence | Condensate
- ✓ Integrally Molded Internal Weight | No Floating
- ✓ IP68 | NEMA 4X Enclosure

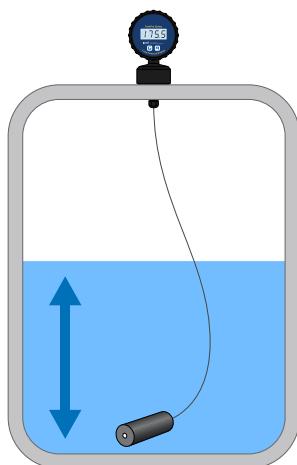
The Solution to Tough Applications Where Ultrasonic Sensors Simply DO NOT WORK!

The TankPro® Submersible Level Transmitter provides continuous level measurement for both corrosive and non-corrosive liquids. These submersible hydrostatic transmitters have been designed for the toughest industrial applications. Unlike ultrasonic level transmitters, our liquid level sensors are completely unaffected by any foam, vapor, turbulence or condensate in the tank.

The TankPro® Level Transmitter comes equipped with a local LCD display that mounts the top of the tank with a 1" or 2" NPT connection.

The TankPro® Series comes in PVC, PP, PVDF, PTFE Teflon® or 316 SS making them the perfect level sensor for your chemical tank application.

Accurate level reading by measuring the head pressure of the liquid pushing down on ceramic sensing diaphragm.



VaporBloc® Technology

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



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Technical Specifications

Input Pressure Range

Level ft/H ₂ O	14 *Consult Factory for Levels > 14 ft
Overpressure Psi	210 290 290 380

Output Signal | Supply

Output Signal	4-20mA
Power Supply	9-36 VDC Loop Powered

Performance

Accuracy	<± 0.5% Full Scale
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/KΩ
Long Term Stability	<± 0.1% Full Scale over One Year
Response Time	<10 msec

Permissible Temperatures

Storage/Media Temperatures	PVC : 32 to 140°F 0 to 60°C	PP : -20 to 170°F -28 to 76°C	PVDF : -40 to 170°F -40 to 76°C	PTFE : -40 to 170°F -40 to 76°C	316 SS : -40 to 170°F -40 to 76°C
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Thermal Effects | Offset & Span

Thermal Drift	<± 0.02% FSO/K in Compensated Range -20 to 170°F
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Display

LCD

Materials | Wetted

Housing	PVC PP PVDF PTFE 316 SS
Seal	FFKM - Kalrez®
Diaphragm	Pure Ceramic 96% Al ₂ O ₃ 316 SS

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	

General (Sensor Only)

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

Standards & Approvals

CE | FCC | RoHS Compliant

*Contact Factory for different options

Model Selection

TankPro® — Submersible Level Sensor + Display		
Part Number	Material	Output
191-1001-A113302F	PVC	1 Relay + 4-20mA
191-1001-B113302F	PP	1 Relay + 4-20mA
191-1001-E113302F	PVDF	1 Relay + 4-20mA
191-1001-SS113302F	316 SS	1 Relay + 4-20mA

Wiring

24VDC	Color
Supply +	Red
Supply -	Black

