

**LevelPro® — TankPro® Series**  
**Submersible Level Sensor Transmitter**

**ICON**™ Corrosion-Free Instrumentation Equipment™  
PROCESS CONTROLS  
**madshean**



# LevelPro® — TankPro® Series

## Submersible Level Sensor Transmitter



### 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

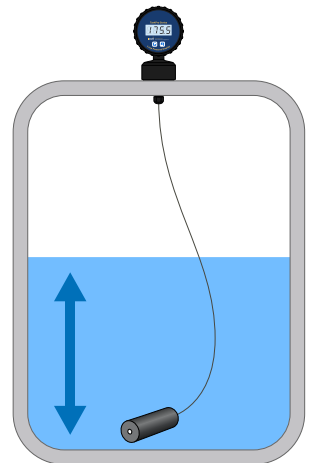
### The Solution to Tough Applications Where Ultrasonic Sensors Simply DO NOT WORK!

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, submersible liquid level sensors are unaffected by any foam, vapor, turbulence or condensate in the tank.

The TankPro® Level Transmitter comes equipped with a local LCD display and mounts on top of the tank with a 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



# LevelPro® — TankPro® Series

## Submersible Level Sensor Transmitter

### Technical Specifications

Input Pressure Range									
Level ft/H <sub>2</sub> 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/K $\Omega$								
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
Thermal Effects   Offset & Span									
Thermal Drift	<± 0.02% FSO/K in Compensated Range   -20 to 170°F								
Display									
LCD									
Materials   Wetted									
Housing	PVC   PP   PVDF   PTFE   316 SS								
Seal	FFKM - Kalrez®								
Diaphragm	Pure Ceramic 96% Al2O3   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									

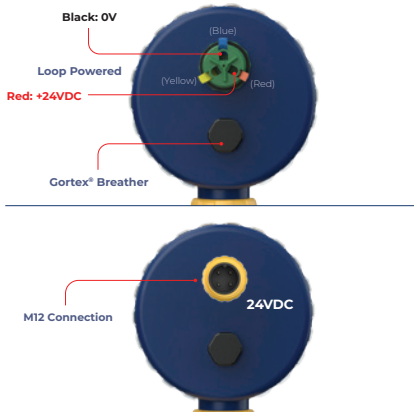
\*Contact Factory for different options

### Quick Connect Wiring

Tabs	Description
Red	+VDC
Blue	-VDC

### M12 Wiring

Pins	Wire Color	Description
1	Brown	+VDC
3	Blue	-VDC



### Model Selection

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