

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

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



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## Submersible Level Sensor Transmitter

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

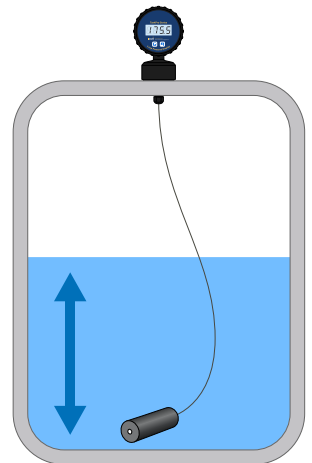
### The Solution to Tough Applications Where Ultrasonic Sensors Simply DO NOT WORK!

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, 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



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## 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<br>0 to 60°C | PP : | -20 to 170°F<br>-28 to 76°C | PVDF : | -40 to 170°F<br>-40 to 76°C | PTFE : | -40 to 170°F<br>-40 to 76°C | 316 SS : | -40 to 170°F<br>-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% Al <sub>2</sub> O <sub>3</sub>   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                                                   |                                                                    |                          |      |                             |        |                             |        |                             |          |                             |

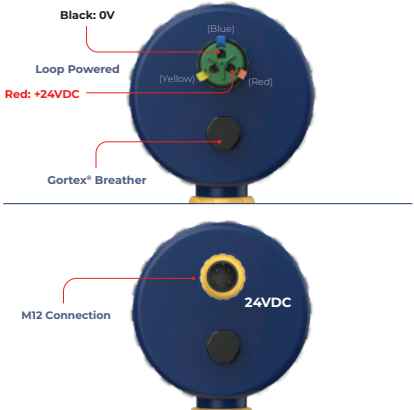
\*Contact Factory for different options

### 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 |