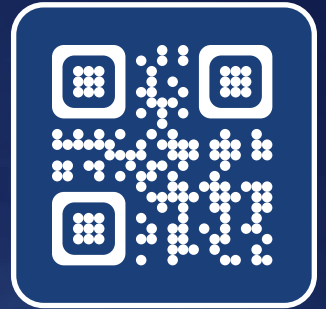# ICON™
PROCESS CONTROLS

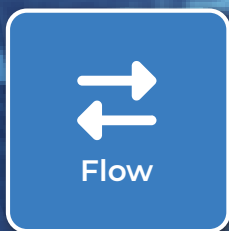## Corrosion-Free
Instrumentation Equipment

2024
Product Catalogue

Order from: **C A Briggs Company**
622 Mary Street; Suite 101; Warminster, PA 18974
Phone: 267-673-8117 - Fax: 267-673-8118
Sales@cabriggs.com - www.cabriggs.com

Flow

Liquid Level

Analytical

Pressure

Leak Detection

Wireless Solutions

Accelerating Innovation ✦ iconprocon.com

Contents:

Flow

Level

Analytical

Pressure

Leak

Wireless

truflo®
TK Series

In-Line Plastic Paddle Wheel Flow Meter

- ⊘ Industry's Highest Accuracy: +/- 0.5%
- ⊘ Lifetime Warranty on Paddle Assembly
- ⊘ No Programming

M12 Quick Connection

Rotates 360°

Icon Process Controls

PVC | PP | PVDF

Bright LED Display

Flow Rate and Total

True Union Design

GUARANTEE
LIFETIME WARRANTY

PVC   PP   PVDF   RoHS Compliant   CE

ICON™
PROCESS CONTROLS
Corrosion-Free
Instrumentation Equipment

TK Series — In-Line Plastic Paddle Wheel Flow Meter

Industry's Most Accurate & Reliable Paddle Wheel Flow Meters

The TK Series in-line plastic paddle wheel flow meter has been engineered to provide long-term, accurate flow measurement in tough industrial applications.

The paddle wheel assembly consists of an engineered Tefzel® paddle and micro-polished zirconium ceramic rotor pin and bushings.

High performance Tefzel® and Zirconium materials have been selected due to their excellent chemical and wear resistant properties.

- ⊘ ½" – 4" Line Sizes
- ⊘ Flow Rate | Total
- ⊘ Pulse | 4-20mA | RS485 | Voltage Outputs

New ShearPro® Design

- ⊘ Contoured Flow Profile
- ⊘ Reduced Turbulence = Increased Longevity
- ⊘ 78% Less Drag than Old Flat Paddle Design*

  *Ref: NASA "Shape Effects on Drag"

ShearPro® vs. Flat Paddle

Tefzel® Paddle Wheel

- ⊘ Superior Chemical And Wear Resistance vs. PVDF

Zirconium Ceramic Rotor | Bushings

- ⊘ Up to 15x the Wear Resistance vs. Regular Ceramic
- ⊘ Integral Rotor Bushings Reduce Wear and Fatigue Stress

6 Distinct Meters Designed to Exceed Your Flow Expectations

Battery	Pulse + Relay	Pulse	RS485	Pulse	4–20mA	Pulse	Voltage	4–20mA	Battery + Pulse
TKB	TKS	TKP	TKM	TKW	TCB

TK3 Series

In-Line Stainless Steel Paddle Wheel Flow Meter

- ✓ Industry's Highest Accuracy: +/- 0.5%
- ✓ Lifetime Warranty on Paddle Assembly
- ✓ No Programming

GUARANTEE LIFETIME WARRANTY

M12 Quick Connection

Rotates 360°

316 Stainless Steel

Bright LED Display

Flow Rate and Total

Sanitary Connection

ICON PROCESS CONTROLS™ Corrosion-Free Instrumentation Equipment

316SS — RoHS Compliant — CE

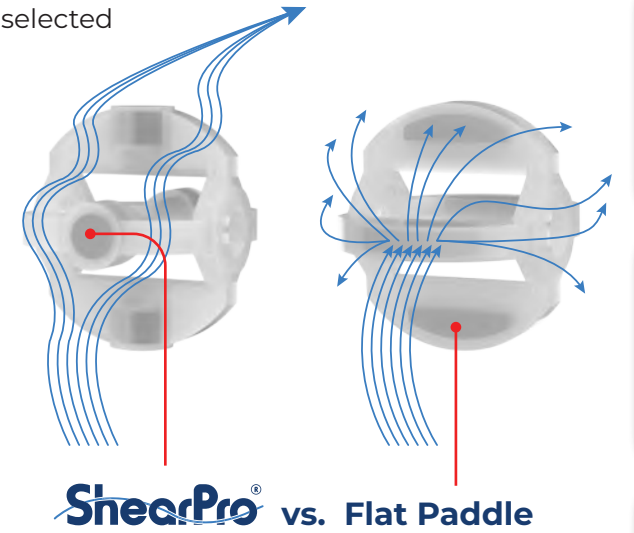## TK3 Series — In-Line 316 Stainless Steel Paddle Wheel Flow Meter

Industry's Most Accurate & Reliable Paddle Wheel Flow Meters

The TK3 Series in-line 316 stainless steel paddle wheel flow meter has been engineered to provide long-term, accurate flow measurement in tough industrial applications.

The paddle wheel assembly consists of an engineered Tefzel® paddle and micro-polished zirconium ceramic rotor pin and bushings.

High performance Tefzel® and Zirconium materials have been selected due to their excellent chemical and wear resistant properties.

- ✓ ½" – 4" Line Sizes
- ✓ Flow Rate | Total
- ✓ Pulse | 4-20mA | RS485 | Voltage Outputs

New ShearPro® Design

- ✓ Contoured Flow Profile
- ✓ Reduced Turbulence = Increased Longevity
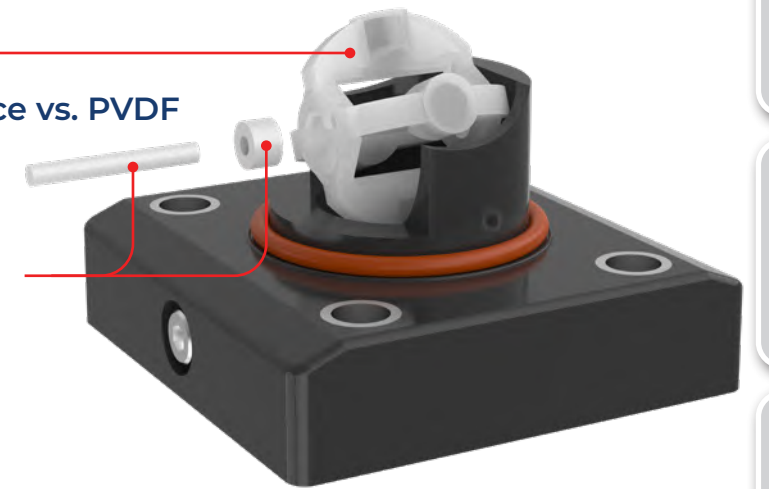- ✓ 78% Less Drag than Old Flat Paddle Design*
  *Ref: NASA "Shape Effects on Drag"

ShearPro® vs. Flat Paddle

Tefzel® Paddle Wheel

- ✓ Superior Chemical And Wear Resistance vs. PVDF

Zirconium Ceramic Rotor | Bushings

- ✓ Up to 15x the Wear Resistance vs. Regular Ceramic
- ✓ Integral Rotor Bushings Reduce Wear and Fatigue Stress

6 Distinct Meters Designed to Exceed Your Flow Expectations

Battery	Pulse + Relay	Pulse | RS485	Pulse | 4–20mA	Pulse | Voltage | 4–20mA	Battery + Pulse
TK3B	TK3S	TK3P	TK3M	TK3W	TC3B

truflo®
TI Series

Insertion Plastic Paddle Wheel Flow Meter

- ✓ Industry's Highest Accuracy: +/- 0.5%
- ✓ Lifetime Warranty on Paddle Assembly
- ✓ No Programming

Flow Rate and Total

Bright LED Display

Rotates 330°

M12 Quick Connection

True Union Design

NPT Connection

PVC | PP | PVDF

PT | PPT | PFT — Tee Fittings

GUARANTEE · LIFETIME WARRANTY

ICON PROCESS CONTROLS
Corrosion-Free Instrumentation Equipment

PVC | PP | PVDF | RoHS Compliant | CE

⇄ TI Series — Insertion Plastic Paddle Wheel Flow Meter

Industry's Most Accurate & Reliable Paddle Wheel Flow Meters

The TI Series insertion plastic paddle wheel flow meter has been engineered to provide long-term, accurate flow measurement in tough industrial applications.

The paddle wheel assembly consists of an engineered Tefzel® paddle and micro-polished zirconium ceramic rotor pin and bushings.

High performance Tefzel® and Zirconium materials have been selected due to their excellent chemical and wear resistant properties.

- ✓ ½" – 24" Line Sizes
- ✓ Flow Rate | Total
- ✓ Pulse | 4-20mA | RS485 | Voltage Outputs

New ShearPro® Design
- ✓ Contoured Flow Profile
- ✓ Reduced Turbulence = Increased Longevity
- ✓ 78% Less Drag than Old Flat Paddle Design*
  - *Ref: NASA "Shape Effects on Drag"

ShearPro® vs. Flat Paddle

Tefzel® Paddle Wheel
- ✓ Superior Chemical And Wear Resistance vs. PVDF

Zirconium Ceramic Rotor | Bushings
- ✓ Up to 15x the Wear Resistance
- ✓ Integral Rotor Bushings Reduce Wear and Fatigue Stress

360° Shielded Rotor Design
- ✓ Eliminates Finger Spread
- ✓ No Lost Paddles

ShearPro® vs. Competitor

5 Distinct Meters Designed to Exceed Your Flow Expectations

Flow & Total (Battery)	Flow & Total (Pulse | RS-485)	Flow & Total (Pulse | 4-20mA)	Flow Rate (Pulse | 4-20mA + Relay)	Flow, Total & Batching (Pulse | 4-20mA | Voltage)
TIB	**TIP**	**TIM**	**TIR**	**TIF**

truflo®
TI3 Series

Insertion Stainless Steel Paddle Wheel Flow Meter

- ✓ Industry's Highest Accuracy: +/- 0.5%
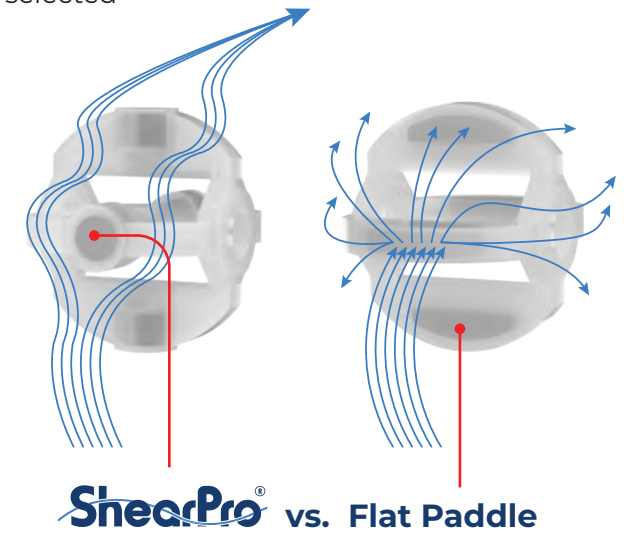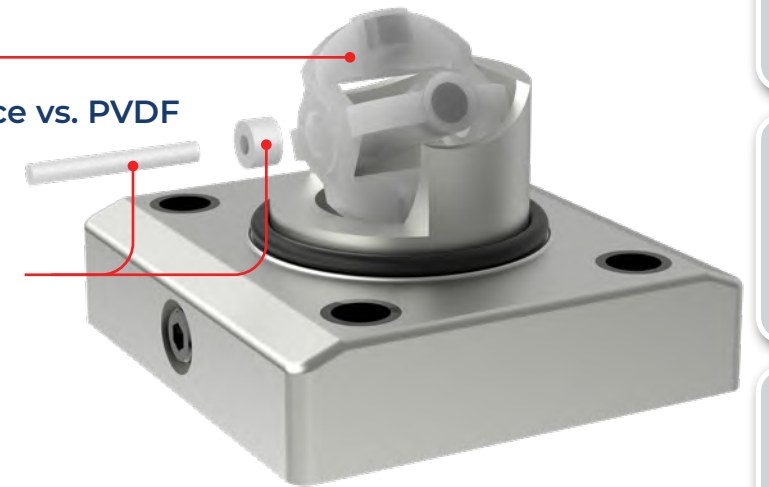- ✓ Lifetime Warranty on Paddle Assembly
- ✓ No Programming

GUARANTEE LIFETIME WARRANTY

Flow Rate and Total

Bright LED Display

Rotates 330°

M12 Quick Connection

316 Stainless Steel

Sanitary Connection

ICON PROCESS CONTROLS™ Corrosion-Free Instrumentation Equipment

316SS RoHS Compliant CE

TI3 Series — Insertion Stainless Steel Paddle Wheel Flow Meter

Industry's Most Accurate & Reliable Paddle Wheel Flow Meters

The TI3 Series insertion 316 stainless steel paddle wheel flow meter has been engineered to provide long-term, accurate flow measurement in tough industrial applications.

The paddle wheel assembly consists of an engineered Tefzel® paddle and micro-polished zirconium ceramic rotor pin and bushings.
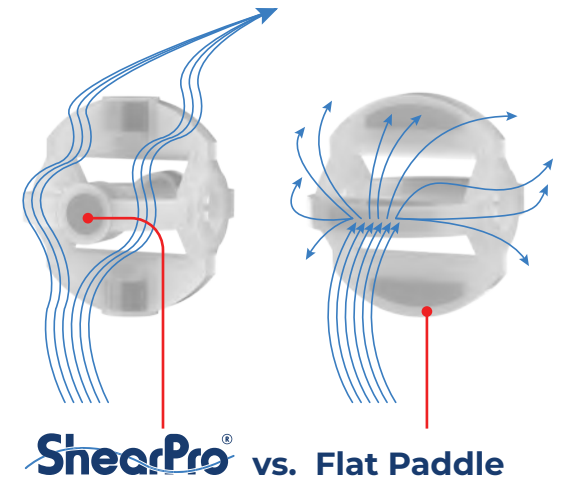
High performance Tefzel® and Zirconium materials have been selected due to their excellent chemical and wear resistant properties.

- ✓ ½" – 24" Line Sizes
- ✓ Flow Rate | Total
- ✓ Pulse | 4-20mA | RS485 | Voltage Outputs

New ShearPro® Design
- ✓ Contoured Flow Profile
- ✓ Reduced Turbulence = Increased Longevity
- ✓ 78% Less Drag than Old Flat Paddle Design*
  *Ref: NASA "Shape Effects on Drag"

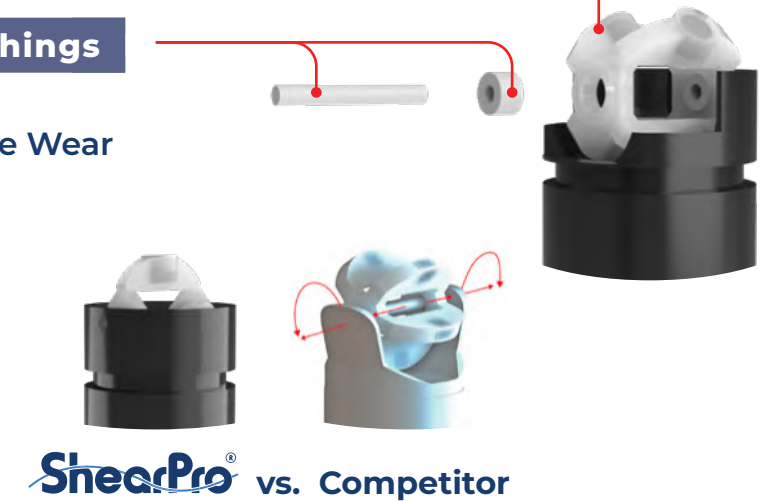**ShearPro® vs. Flat Paddle**

Tefzel® Paddle Wheel
- ✓ Superior Chemical And Wear Resistance vs. PVDF

Zirconium Ceramic Rotor | Bushings
- ✓ Up to 15x the Wear Resistance
- ✓ Integral Rotor Bushings Reduce Wear and Fatigue Stress

360° Shielded Rotor Design
- ✓ Eliminates Finger Spread
- ✓ No Lost Paddles

ShearPro® vs. Competitor

5 Distinct Meters Designed to Exceed Your Flow Expectations

Flow & Total (Battery)	Flow & Total (Pulse | RS-485)	Flow & Total (Pulse | 4-20mA)	Flow Rate (Pulse | 4-20mA + Relay)	Flow, Total & Batching (Pulse | 4-20mA | Voltage)
TI3B	TI3P	TI3M	TI3R	TI3F

truflo® TIW / TI3W Series

Insertion Paddle Wheel Flow Meter
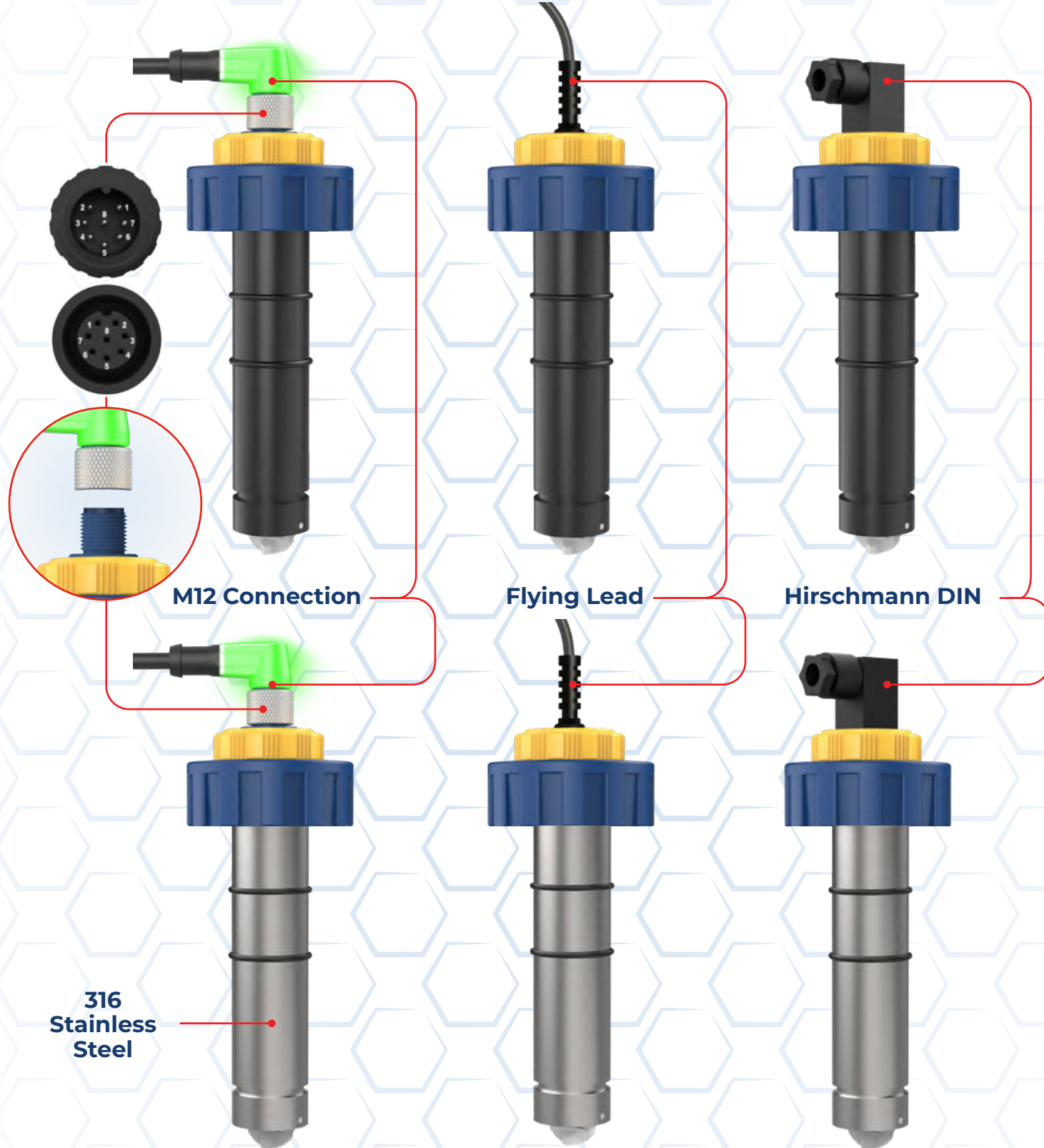
M12 Connection

Flying Lead

Hirschmann DIN

316 Stainless Steel

ICON PROCESS CONTROLS™
Corrosion-Free Instrumentation Equipment

PVC | PP | PVDF | 316SS | RoHS Compliant CE

TIW/ TI3W Series — Insertion Paddle Wheel Flow Meter

Industry's Most Accurate & Reliable Paddle Wheel Flow Meters

GUARANTEE · LIFETIME WARRANTY

The TIW/TI3W series insertion plastic/316 stainless steel paddle wheel flow meter has been engineered to provide long-term, accurate flow measurement in tough industrial applications.

The TIW/TI3W insertion flow meter is a blind unit that provides a frequency pulse output and is available with an M12 connection, flying lead or a Hirschmann DIN quick disconnect.

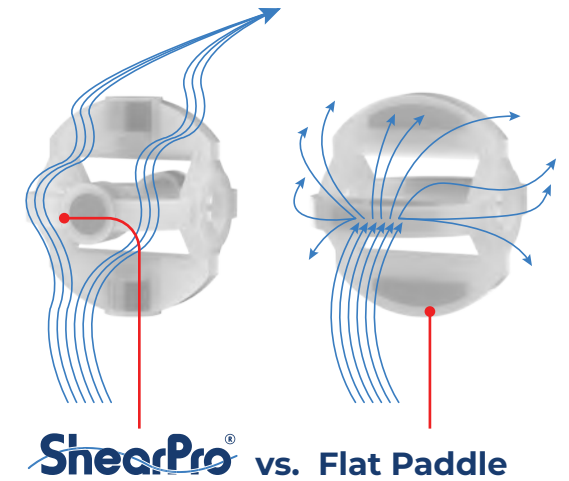The paddle wheel assembly consists of an engineered Tefzel® paddle and micro-polished zirconium ceramic rotor pin and bushings. High performance Tefzel® and Zirconium materials have been selected due to their excellent chemical and wear resistant properties.

- ⊘ ½" – 24" Line Sizes
- ⊘ Pulse Output

New ShearPro® Design

- ⊘ Contoured Flow Profile
- ⊘ Reduced Turbulence = Increased Longevity
- ⊘ 78% Less Drag than Old Flat Paddle Design*
  Ref: NASA "Shape Effects on Drag"

ShearPro® vs. Flat Paddle
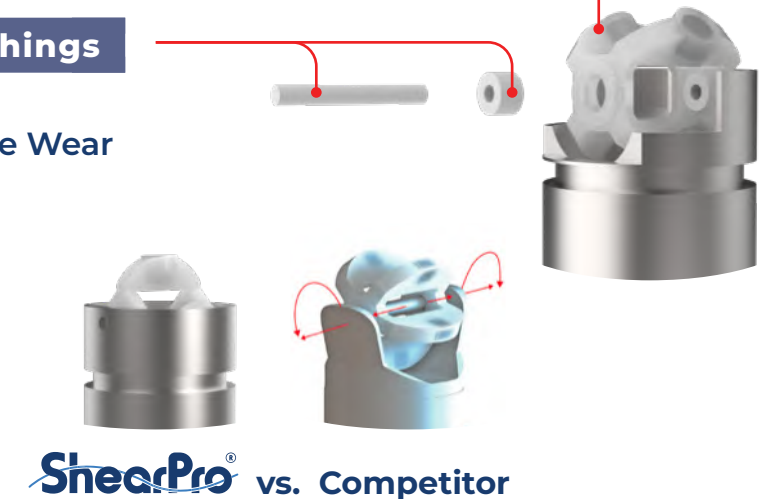
Tefzel® Paddle Wheel

- ⊘ Superior Chemical And Wear Resistance vs. PVDF

Zirconium Ceramic Rotor | Bushings

- ⊘ Up to 15x the Wear Resistance vs. Regular Ceramic
- ⊘ Integral Rotor Bushings Reduce Wear and Fatigue Stress

360° Shielded Rotor Design

- ⊘ Eliminates Finger Spread
- ⊘ No Lost Paddles

ShearPro® vs. Competitor

truflo®

UF-500
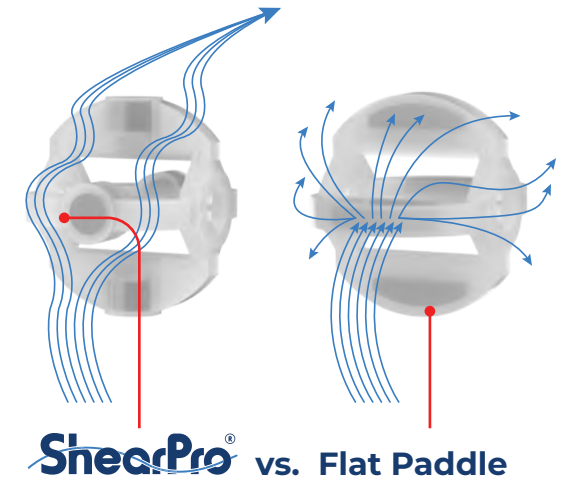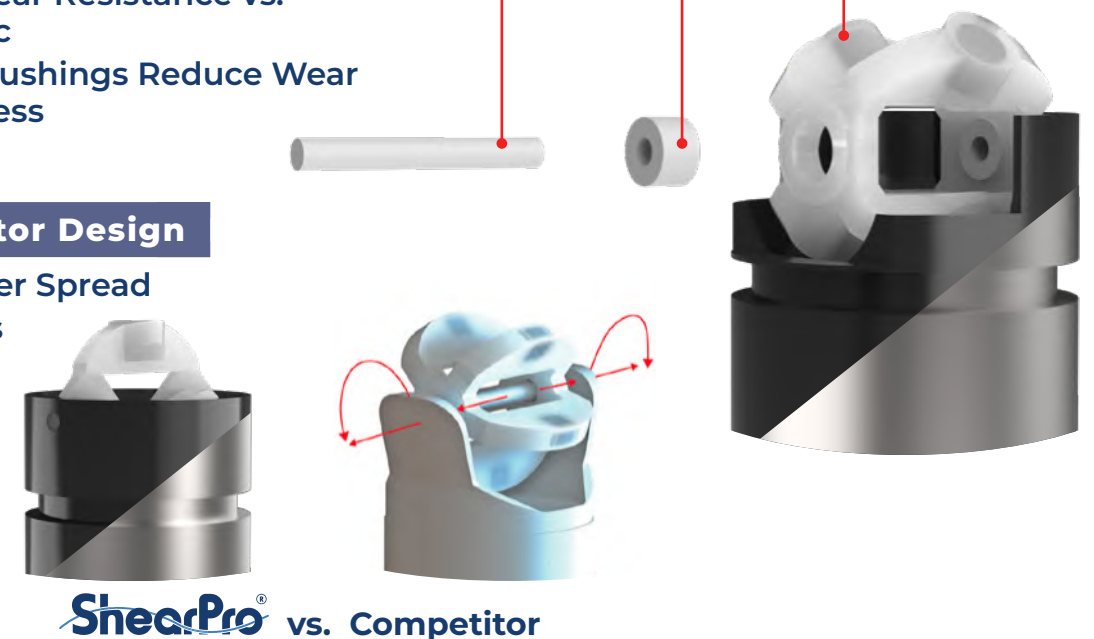
UltraFlo® 500 — Clamp-On Ultrasonic Flow Meter

- ✓ Under 2 Minute Installation Time
- ✓ No Contact with Liquid
- ✓ 4-20mA | RS485 Output
- ✓ Simple Programming
- ✓ No Moving Parts
- ✓ Data Logging

- ✓ No Pipe Cutting
- ✓ Flow Rate + Totalizer | Resettable
- ✓ Works on:
  Carbon Steel | Stainless Steel | PVC | Copper | PVDF | PFA | PTFE | PU | Aluminium

Ultra-Convenient, Ultra-Versatile, Ultra-Simple — UltraFlo®

Chemical Resistant, High Impact Polycarbonate Cover

M12 Quick Connection

Flow Rate and Total

Bright LED Display

Teflon® Epoxy Coated Aluminum

Magnetic Connection
(for easier installation)

UltraFlo® 500 — Clamp-On Ultrasonic Flow Meter
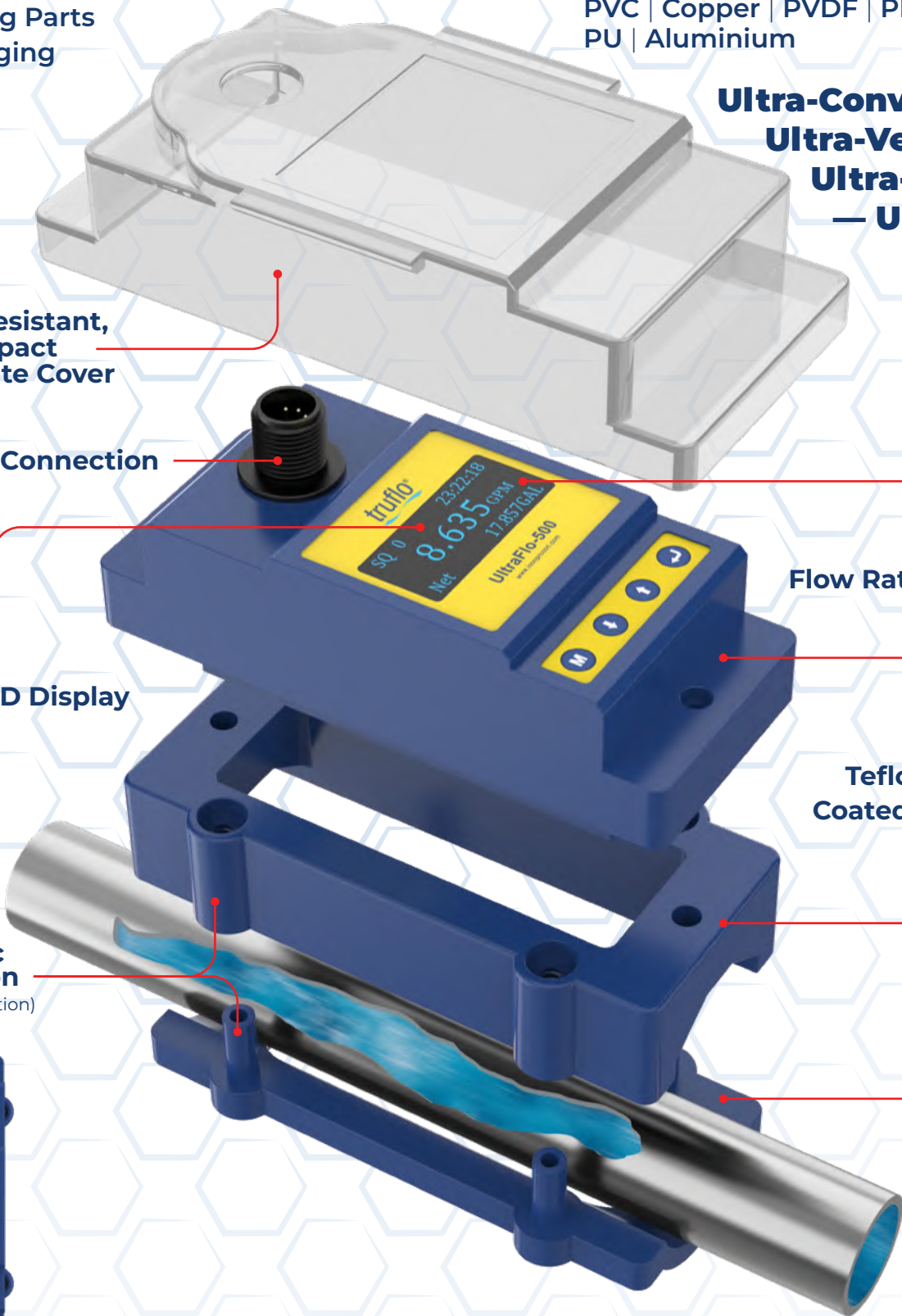
Convenience, Accuracy and Value in an Ultrasonic Flow Meter

The TruFlo® UF500 Series Clamp-On Ultrasonic Flow Meters are easy to install with exceptional long life performance and requires no alteration to current piping configurations.

The sensor sends over 50 pulses/sec in order to provide accurate measurement of liquid flow rates in full pipes and can be used in low pressure systems.

- ✓ Wide dynamic flow range of 0.1 to 15 ft/s | 0.03 to 5 m/s
- ✓ High Accuracy | ± 2.0% of Full Scale
- ✓ Lightweight
- ✓ Excellent external corrosion resistance

Working Principle

Traditional flow meters have long relied on the principle of measuring flow by tracking the time it takes for an ultrasonic pulse to journey from a transmitting element to a receiving element. As flow rates increase, the signal accelerates, and transmission time diminishes, allowing for a direct correlation to the instantaneous flow rate.

However, we at ICON have redefined this conventional approach to flow measurement with our innovative UF-500 Series. Our technology stands out by concurrently monitoring two signals: one in the direction of flow and the other against it. This groundbreaking dual-signal monitoring system ensures that our readings remain consistently accurate and stable, regardless of external variables such as clogging or temperature fluctuations.

M12 Quick Connection

- ✓ Replaces Flying Lead Connections
- ✓ Reduces Setup Time
- ✓ Watertight Design
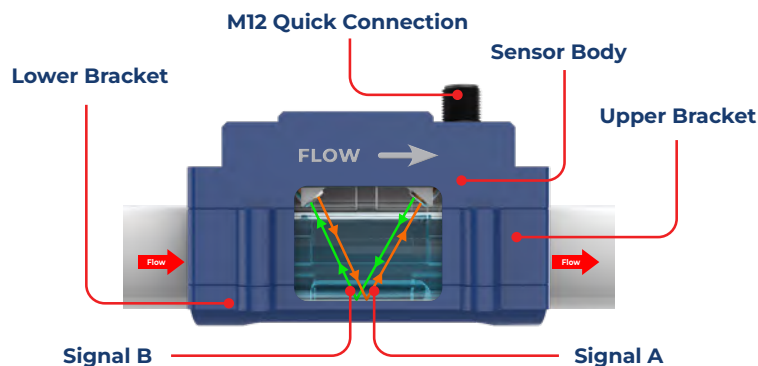
Working Principle

Flow Rate/Net Totalizer	Run Time/Daily Totalizer /Month Totalizer/Year Totalizer	Flow Rate/S.ToT Totalizer	Flow Rate/Velocity /Net Totalizer	Velocity/Net Totalizer
SQ99 12:30:18	Runtime 216h	SQ99 12:30:18	SQ99 12:30:18	20-03-23 12:30
14.8 GPM	Day 20887 GAL	**14.8** GPM	Vel 3.8 f/s	**27.7** f/s
	Mth. 646992 GAL		Flow 895.2 GPM	
Net 9003 GAL	Year 7488505 GAL	S.ToT 6311.1 GAL	Net 203119 gal	Net 6311.1 gal

truflo® UltraFlo® Series

UltraFlo® 1000, 2000, 4000 & 5000 — Ultrasonic Flow Meters

UltraFlo® 1000

- ✓ Designed for Dosing | Pulsating Flows
- ✓ All PFA Teflon®
- ✓ Flared Tubing Connections
- ✓ RS-485 | 4-20mA + Pulse Relay
- ✓ Low Flow Rates: 0.02 LPM | 0.005 GPM

The Ultraflo® 1000 ultrasonic flow meter utilizes ultrasonic technology to measure both conductive and non conductive liquids, and is an excellent choice for very corrosive liquids such as strong acids and alkalines.

The UltraFlo® 1000 has no moving parts and can measure pulsating, dosing and metering flow applications. All parts that contact the liquid are made of corrosion resistant PFA Teflon®. The UltraFlo® 1000 ultrasonic flow meter is characterized by its high measurement accuracy and repeatability.

UltraFlo® 2000

- ✓ All Plastic HDPE Wetted Materials
- ✓ High Accuracy: ± 1.0%
- ✓ Superior Corrosion Resistance
- ✓ 4-20mA + Pulse Relay Output | RS-485
- ✓ Negligible Pressure Drop
- ✓ Empty Pipe Alarm Air Bubble Detection

The Ultraflo® 2000 ultrasonic flow meter is designed to measure the volume of clean liquid media using sound wave technology. The Ultraflo® 2000 can measure both conductive and non-conductive liquids. The Ultraflo® 2000 ultrasonic flow meter emits 250 sound pulses/min making it an excellent choice for measuring dosing and pulsating flow rates.

There are no moving parts and the full port design equates to a negligible pressure drop. The unique body design minimizes dead space over the whole geometry. All wetted parts in contact with the medium are constructed of virgin HDPE material. The Ultraflo® 2000 is characterized by its high repeatability and excellent measurement accuracy.

ICON PROCESS CONTROLS Corrosion-Free Instrumentation Equipment

⇄ UltraFlo® Series — Ultrasonic Flow Meters

UltraFlo® 4000

- ✓ Design to Measure Very Low Flow Rates
- ✓ Suitable for Dosing | Pulsating Flows
- ✓ PVC-CPVC True Union Ends (Optional)
- ✓ RS-485 | 4-20mA + Pulse Relay
- ✓ Display; Flow Rate + Totalizer
- ✓ IP67 Enclosure
- ✓ Negligible Pressure Drop
- ✓ Empty Pipe Alarm

The UltraFlo® 4000 utilizes ultrasonic technology and is capable of measuring both conductive and non conductive liquids.

It is an excellent chose for very corrosive liquids such as strong acids and alkalies. The UltraFlo® 4000 has no moving parts and has been engineered to measure pulsating, dosing as well as metering flow. All parts that contact the liquid are made of corrosion resistant polysulfone.

UltraFlo® 5000

- ✓ Designed for Dosing | Pulsating Flows
- ✓ PVDF | PE
- ✓ ½" | ¾" | 1" | NPT | G Connections
- ✓ RS-485 | 4-20mA + Pulse Relay
- ✓ Low Flow Rates: 0.024 LPM | 0.006 GPM
- ✓ IP67 Enclosure
- ✓ Negligible Pressure Drop
- ✓ Empty Pipe Alarm

The UltraFlo® 5000 flow meter utilizes ultrasonic technology to measure both conductive and non-conductive liquids and is an excellent choice for very corrosive liquids such as strong acids and alkalies.

The UltraFlo® 5000 has no moving parts and can measure pulsating, dosing and metering flow applications. All parts that contact the liquid are made of corrosion-resistant polysulfone.

The UltraFlo® 5000 is characterized by its high measurement accuracy, repeatability and guaranteed long-life performance.

truflo® ProPulse® Series

ProPulse®, ProPulse®2 — Turbine Flow Meters

Precision in Every Drop: Monitoring Low Dosing Flows

Blind

- Pulse Indication
- Easy Access to Documentation
- M12 Quick Connection
- Power Indication
- Corrosion Resistant PVDF | PP Body
- Variety of End Connections

Brown | 1 = 5-30VDC
White | 2 = NPN
Blue | 3 = 0V
Black | 4 = PNP

Display

- Pulse Indication
- Vivid LED Display
- Alarm Indication
- M12 Quick Connection
- True Union Design
- Integral Mounting Platform

Amazing
~~Good~~ things come in small packages

ProPulse® 2

- ✓ Excellent Chemical Resistance
- ✓ Perfect for Metering or Dosing Applications
- ✓ Ultra Low Flow Ranges | 40 ml/min | 0.01 GPM
- ✓ Variety of End Connections: Hose Barb | Threaded | Flared | Straight Pipe
- ✓ NPN or PNP Pulse Output | 4-20mA | RS485
- ✓ Compact Lightweight Design

ICON PROCESS CONTROLS
Corrosion-Free Instrumentation Equipment

PFA | PVC | PP | PVDF | FPM | RoHS Compliant | CE

Small but mighty

The ProPulse® 2 provides superior performance and delivers accurate ultra-low flow measurement that is highly repeatable under the most demanding of industrial environments.
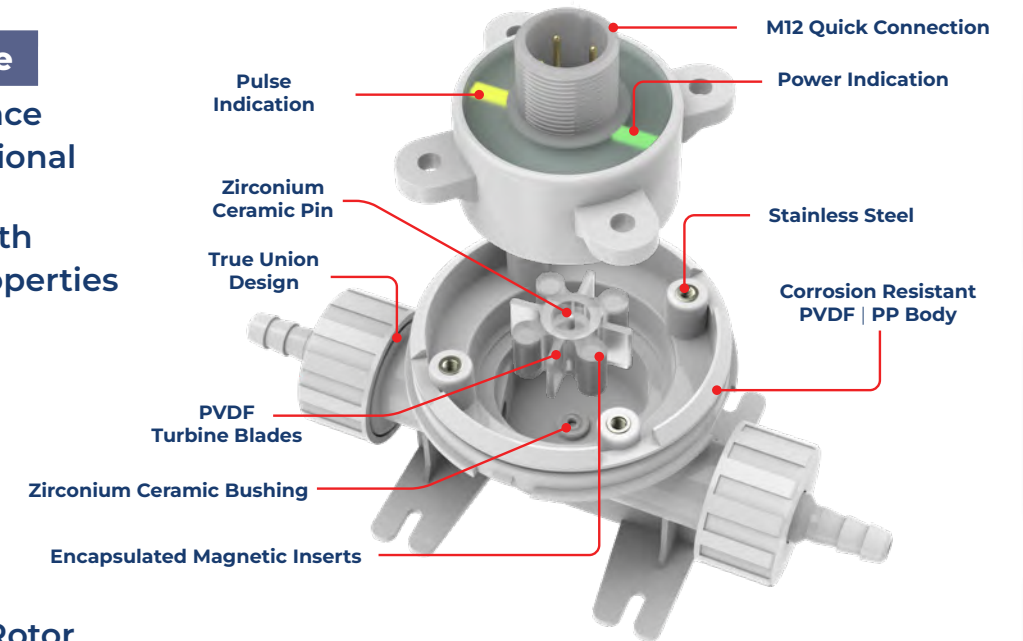
The ProPulse® 2 operates using a PVDF rotor with encapsulated magnetic inserts, which rotate on a long-wearing set of zirconium ceramic bushings, designed to provide years of reliability. As the rotor spins, the magnetic field produced by the magnets is picked up via a Hall Effect Sensor, which converts the rotation into a square wave NPN pulse, 4 – 20mA, or RS485 output that can be sent directly to a metering pump or local display.

ProPulse® 2 PVDF Turbine

- ✓ Great Chemical Resistance
- ✓ Anti-Stick and Low Frictional Properties
- ✓ Excellent Impact Strength
- ✓ Superior Mechanical Properties

- M12 Quick Connection
- Pulse Indication
- Power Indication
- Zirconium Ceramic Pin
- Stainless Steel
- True Union Design
- Corrosion Resistant PVDF | PP Body
- PVDF Turbine Blades
- Zirconium Ceramic Bushing
- Encapsulated Magnetic Inserts

ProPulse®

- ✓ All Plastic PVDF Body | Rotor
- ✓ Sapphire Bearings
- ✓ Ultra Low Flow Ranges: 50 ml/min | 0.013 GPM
- ✓ ½" Tube | 3/8" Pipe
- ✓ High Accuracy & Repeatability
- ✓ NPN | PNP Frequency Pulse Output

truflo® OGF Series

Oval Gear Flow Meter

- Hirschmann DIN
- NPT Connection

The **OGF Series Flow Meter** is specifically suitable for fluid flow rate measurement of highly viscous media. The OGF incorporates epicycloid wheel design, providing highly precise flow measurement values.

Features

- ✓ Compact Design
- ✓ Precision Oval Gears
- ✓ Corrosion Resistant Plastic Housing
- ✓ Ideal for Viscous Liquids
- ✓ Easy Installation

Working Principle

Stage 1 | Stage 2 | Stage 3 | Stage 4

FES Series | UFS Series

All Plastic Flow Switch

- ✓ Excellent Pump Protection
- ✓ Hirschmann DIN Connection | Wire at Sensor
- ✓ Low Flow Switch Points

- ✓ Corrosion Resistant PP Body | Paddle
- ✓ ½ - 12" Pipe Sizes
- ✓ IP65 | NEMA 4X Enclosure
- ✓ Simple Installation Process
- ✓ Easily Changed from NO to NC

Protect your equipment

The Truflo® FES Series Flow Switch is designed to detect liquid flow or low/no flow.

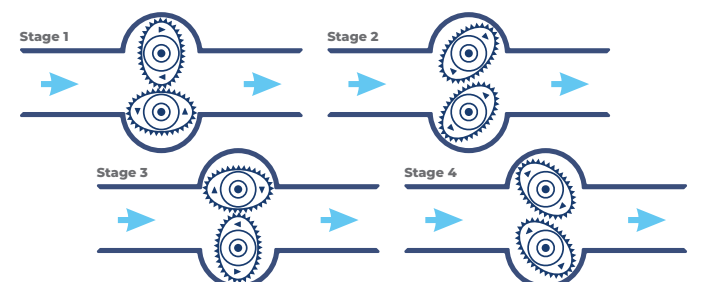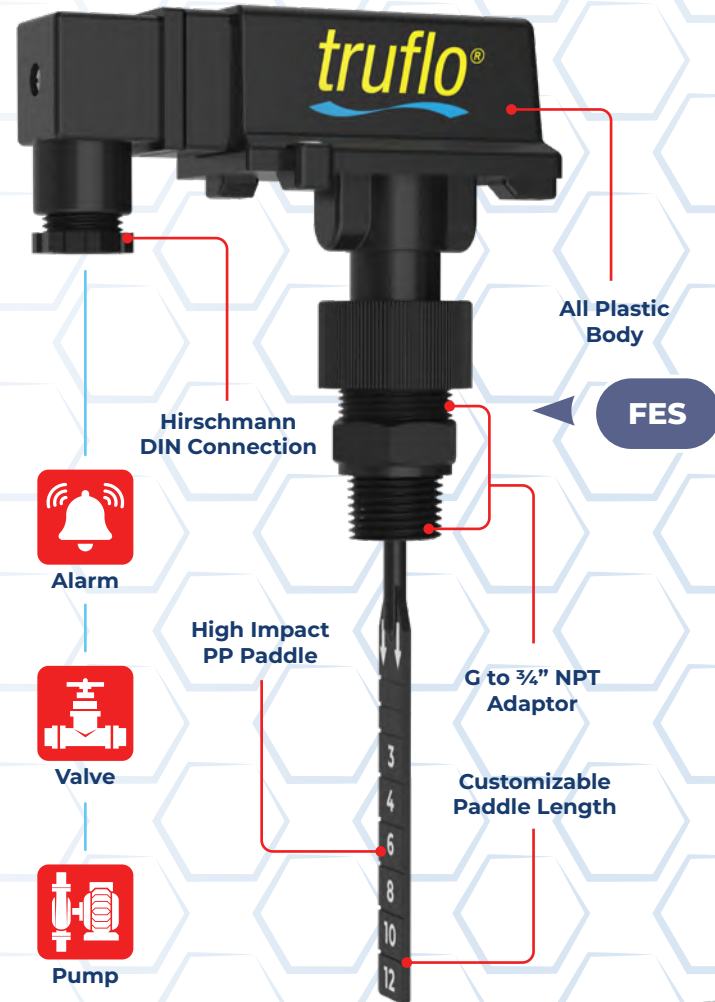The FES switch encompasses a SPST contact that can be wired to energize a device when liquid flow either exceeds or drops below the set flow rate.

The FES Series is an excellent choice for corrosive liquid services, water treatment, waste treatment, liquid pumping and process control systems.
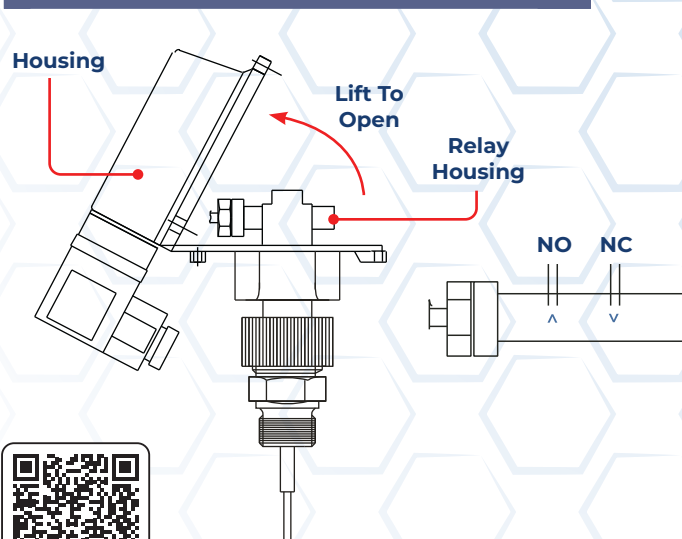
The FES Flow Switch can control devices such as pumps, motorized valves and alarm devices.

Example

- ✓ Prevent Pumps from Running Dry
- ✓ Notification for Filter | Strainer Change-Out
- ✓ Output to Alarm | Shut Off Pump

All Plastic Body

Hirschmann DIN Connection

FES

Alarm

Valve

Pump

High Impact PP Paddle

G to ¾" NPT Adaptor

Customizable Paddle Length

3 4 6 8 10 12

Simple Relay Switch | NO | NC

Housing

Lift To Open

Relay Housing

NO   NC

UFS

- ✓ RYTON® Body
- ✓ Size Range: ½" - 16"
- ✓ Excellent Pump Protection

PP RoHS Compliant CE

TVF Series

Flow Display + Totalizer + Batcher

Easy to Find Documentation

Large Bright LED Display

Plastic Captive Screws

NEMA 4X Enclosure

TVF

Sealed Push Button Controls

SimplConnect™
Cable Grip Connectors

- ✓ 2 Relay Outputs - 5Amp + 4-20mA
- ✓ Power Supply Output: 24VDC
- ✓ Flow Rate | Totalizer | Batcher
- ✓ NEMA 4X Enclosure + Cord Grips

The TVF Series flow display & batcher is the industry's most rugged and reliable wall-mount remote display. The TVF Series will display both flow rate and flow total up to 6 digits.

LevelPro® TVF Series comes as a complete all-in-one unit, out of the box it is ready to use. Included is a bright LED display, NEMA 4X enclosure, polycarbonate faceplate, cord grips and plastic captive screws.

The industrial design of the TVF Series ensures that it will withstand the industry's most corrosive environments.

Available with either 2 relay outputs or 1 relay + 4-20mA output, the TVF Series is great for automating your batching or dosing applications.

TVF-450

Alarm

TVF Series

4-20mA

TI Series

REL 2

REL 1

4-20mA

Control Valve
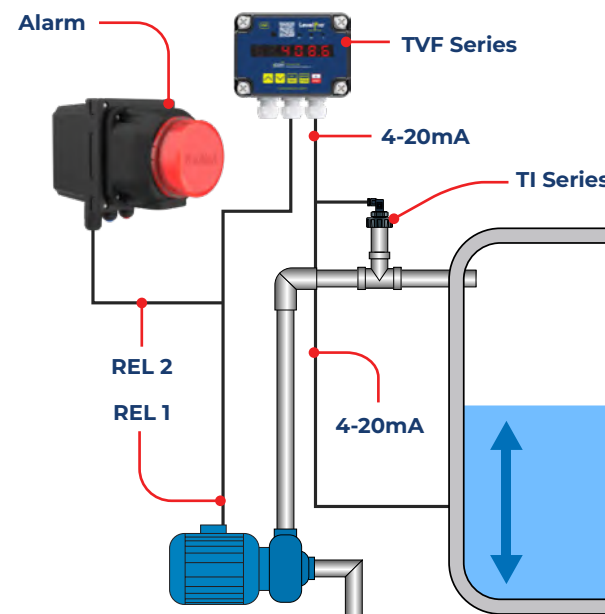
Measuring the flow into a tank utilizing the relay for high level notification measurement and alarm output.

truflo®

MF-1000

In-Line Magnetic Flow Meter

- ✓ **Full Port | No Pressure Drop**
- ✓ **No Moving Parts | No Clog Design**
- ✓ **Integral Display | Flow | Total | All-in-One**

PP Cord Grips

NEMA 4X Housing

Vibrant LED Display

PTFE Teflon® Liner

ICON™ PROCESS CONTROLS — Corrosion-Free Instrumentation Equipment

HC | CS | PTFE | RoHS Compliant | CE

MF-1000 — In-Line Magnetic Flow Meter

Equipment protection that can handle the pressure

The Truflo® MF-1000 Series flanged magnetic flow meters provide long-lasting, reliable performance in even the most challenging applications. The MF-1000 is a microprocessor-based flow transmitter that has been engineered for high performance, easy installation, commissioning and maintenance.

The MF-1000 is truly robust, cost-effective and suitable for all-round applications and has a measuring accuracy of ± 0.5% of the flow rate.

The Truflo® MF-1000 Series comes standard with a PTFE Teflon® liner, carbon steel body and Hastelloy® C electrodes. However, a variety of materials are available to ensure the flow meter is chemically compatible with your application.

- ✓ **4-20mA | Frequency Pulse | RS-485**
- ✓ **Standard PTFE Teflon® Liner**
- ✓ **High Accuracy: ±0.5% F.S.**
- ✓ **Excellent Chemical Resistance**
- ✓ **Full Port Design**
- ✓ **NEMA 4X | IP 68 Protection**

Magnetic Flow Meter Structure

Working Principle Based on Faraday's Law of Electromagnetic Induction

Electrodes

Magnetic Coils

Process Connection

Body

Measuring Tube

PTFE Lining
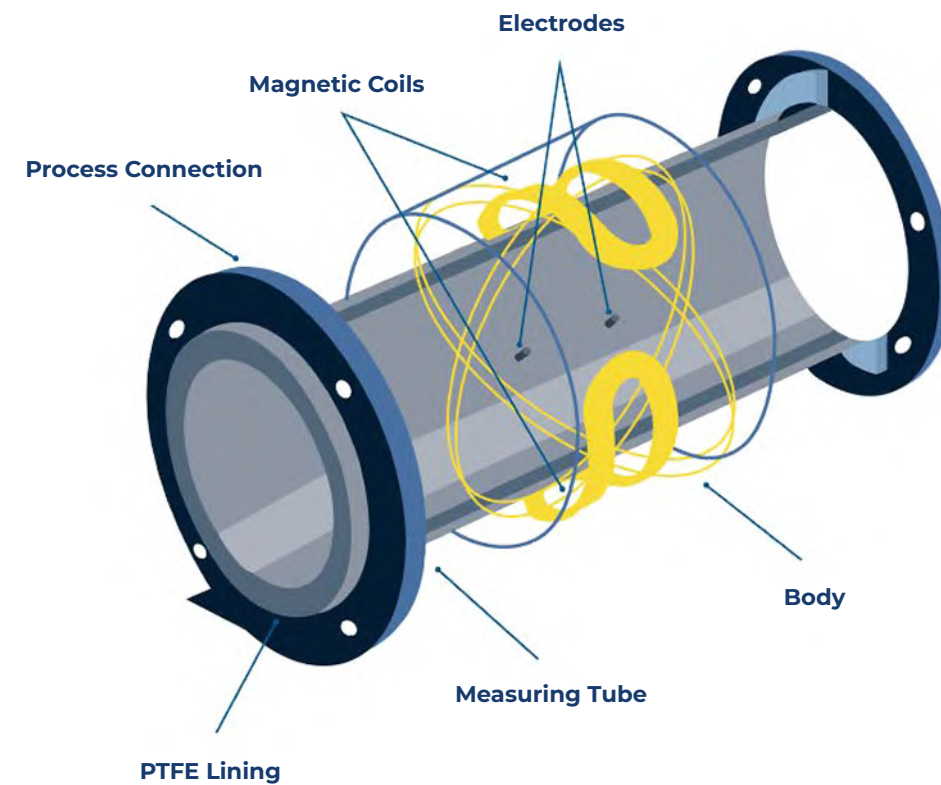
- ✓ **Carbon Steel Body**
- ✓ **PTFE Teflon® Liner**
- ✓ **Hastelloy® C Electrode**

LevelPro

100 Series

Continuous Submersible Level Transmitter
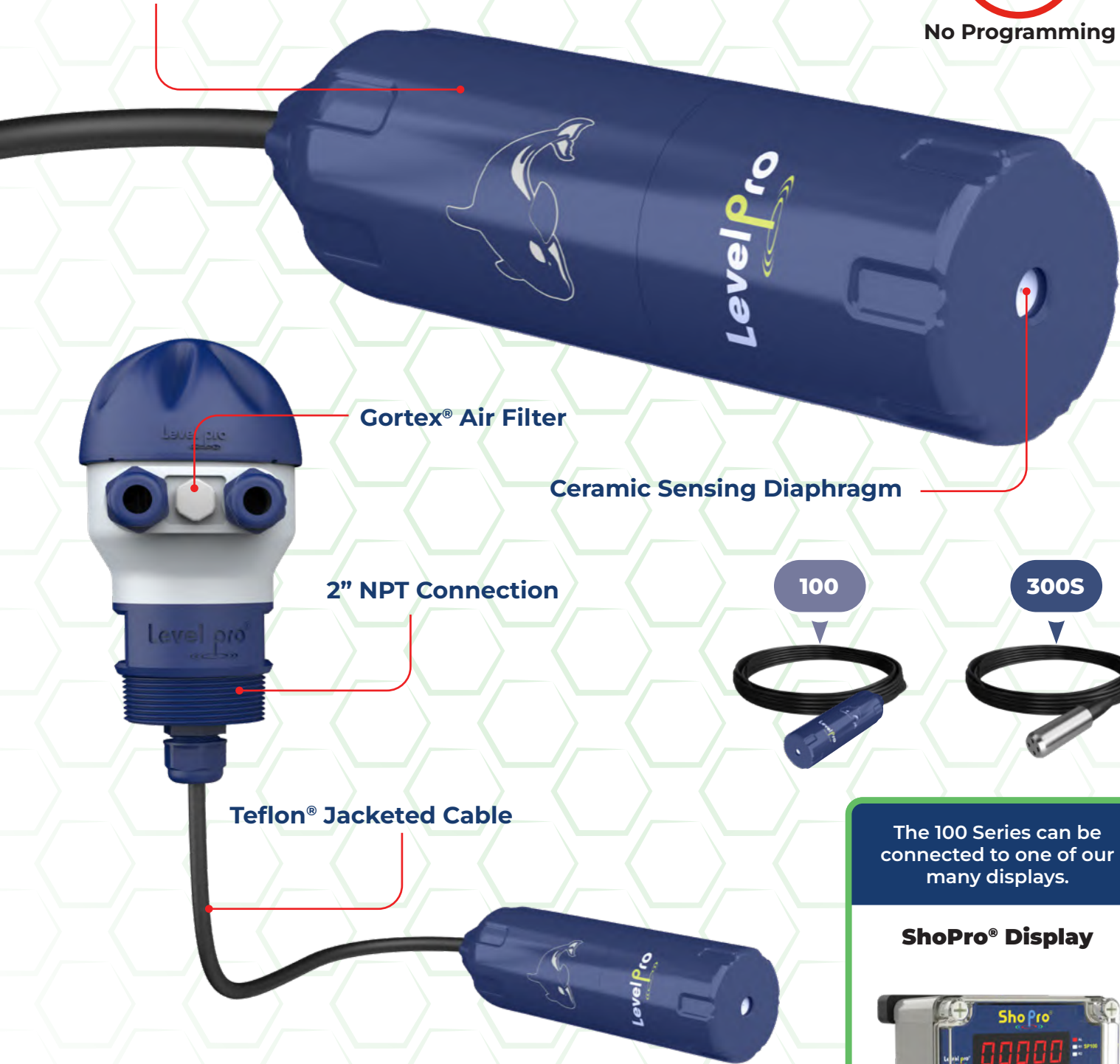
- ✓ **Higher Accuracy** | **Superior Chemical Resistance**
- ✓ **Works on Foam** | **Vapor** | **Turbulence** | **Condensate**
- ✓ **Integrally Molded Internal Weight** | **No Floating**

No Programming

Gortex® Air Filter

Ceramic Sensing Diaphragm

2" NPT Connection

Teflon® Jacketed Cable

100

300S

The 100 Series can be connected to one of our many displays.

ShoPro® Display

| PVC | PP | PVDF | PTFE | 316SS | RoHS Compliant | CE |

## Continuous Submersible Level Transmitter and Junction Box

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

The LevelPro® 100 Series continuous submersible level 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.

LevelPro® 100 Series Sensor

- ✓ **PVC** | **PP** | **PVDF** | **316 SS** | **PTFE Teflon®**
- ✓ **Integral Weight** | **No Floating**
- ✓ **Teflon® Jacketed Cable**
- ✓ **Kalrez® O-Ring Seal**
- ✓ **High Accuracy: ±0.5%**

Teflon® Jacketed Cable

Supply +

Double Shielded

Supply -

Capillary with Gortex® Breather
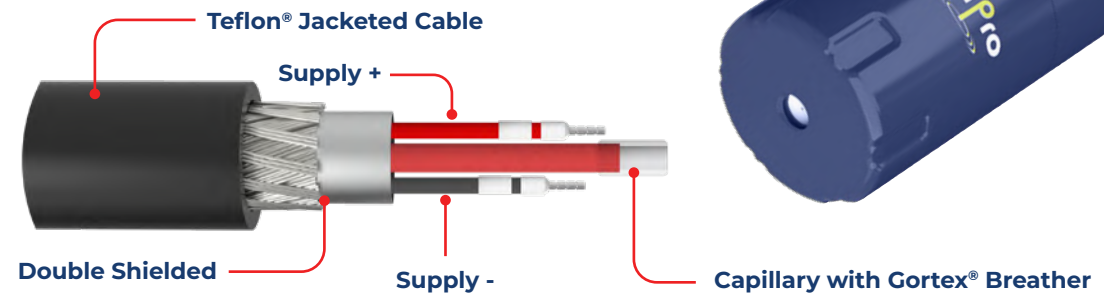
LevelPro® LP100 Tank Level Junction Box

- ✓ **All Plastic NEMA 4X Enclosure**
- ✓ **2" NPT Tank Connection**
- ✓ **VaporBloc® Sealing System**
  (Prevents corrosive vapors from escaping through the junction box)

VaporBloc®

SimplConnect™
Cable Grip Connectors

Liquid Level Switches

LevelPro

PLF | PLS | FloatPro® | TFS

PLF — Liquid Level Float Switch

- ✓ 6" - 96" Range
- ✓ Up to 8 Relay Contacts
- ✓ Flange | NPT Connection
- ✓ PVC | PP | PVDF | 316 SS
- ✓ No Power Required

The PLF Liquid Level Float Switch provides liquid level detection up to 8'(2.4m) with 1-8 level switch points and a compact junction box for wiring termination. This all plastic level switch package is selected for day tank, skid or machine, cooling tower, waste sump or process tank applications, and can be connected directly to a PLC or relay controller. It makes a perfect on | off switch for pumps or valves and can be used to completely automate your tank. The PLF is only suitable for non-viscous and non-coating liquids.

PLS-H

½" NPT

PLS-V

¼" NPT
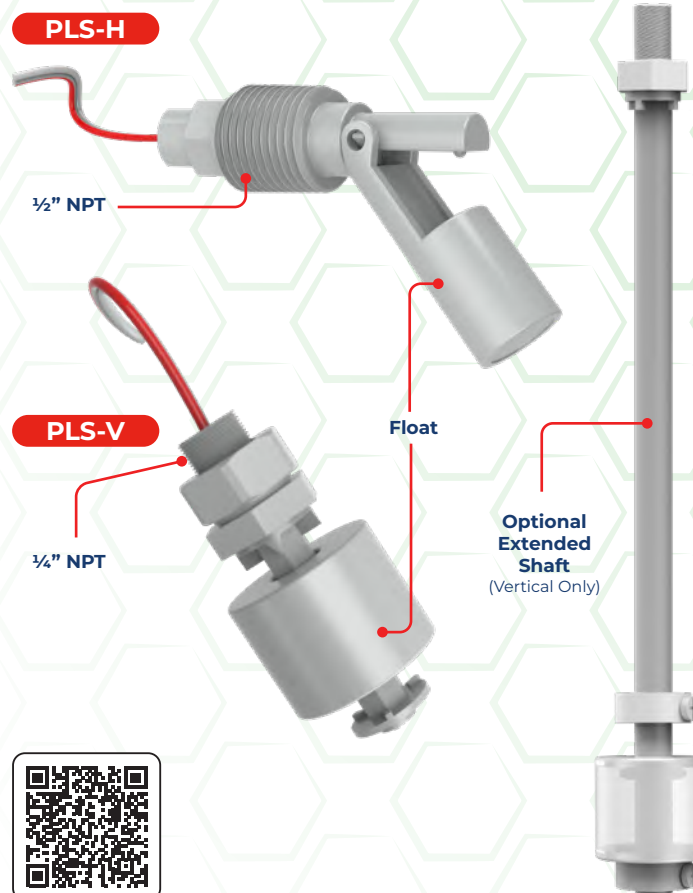
Float

Optional Extended Shaft (Vertical Only)
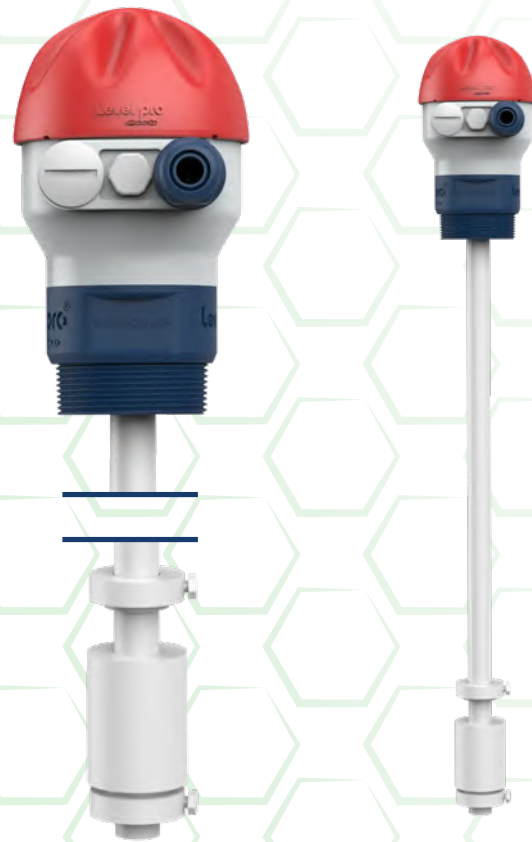
PLS — Plastic Level Switch

- ✓ Low Profile | Quick Installation
- ✓ No Power Required | 2 Wire Reed Switch
- ✓ Horizontal | Vertical Orientation
- ✓ All Plastic Design
  (Excellent Corrosion Resistance)
- ✓ High/Low Level Indication

The LevelPro® PLS Series compact level switches combine affordability, reliability, and simple installation.

The all plastic level switches contain a hermetically sealed reed switch that is actuated by magnets that are permanently bonded inside the float. They can be easily adapted to open or close a circuit based on the rising or falling of the liquid level.

Switch ratings are suitable for many solid-state control systems and small monitors or alarms. Simple relay interfaces can be used for higher current applications such as pumps and on-off valve actuators

Liquid Level Switches

FloatPro® PP Ball Float Valve

- ✓ 5 Adjustable Positions
- ✓ Robust Construction
- ✓ Material Choice for Internal Seat
- ✓ No Tools Required to Adjust the Ball
- ✓ Cost Effective Tank Level Control
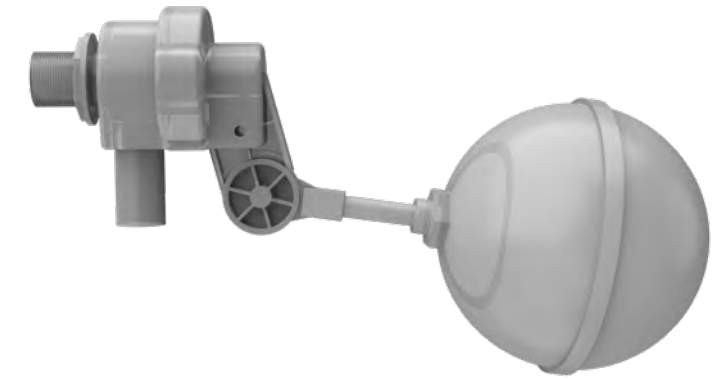
### Introducing the New FloatPro® Series with an Adjustable Cam

The **Ball Float Valve** incorporates an adjustable cam to give more flexibility in situations where adjusting fluid levels is essential and it resolves the problem of the type 'A' air gap.

The internal seat (EVA Polythene) has a working temperature of up to 158°F (70°C), and has excellent chemical resistance. The internal EPDM rubber has a working temperature of up to 194°F (90°C), and has an even greater resistance to a wider range of aggressive chemicals than EVA.

The FloatPro® Series has two polypropylene internal valve seats and is available in standard bore for a normal flow of liquid and a large bore allowing a greater flow of liquid.

The robust construction and leak-free design ensure a long, maintenance free operating life. Once installed they can be left to perform the required function without the constant need for supervision.

If it ever does require maintenance, it's designed to unscrew from the centre for easy access.

5-Position Adjustable Cam

Red & Green Status Lights

Teflon® Coated Forks
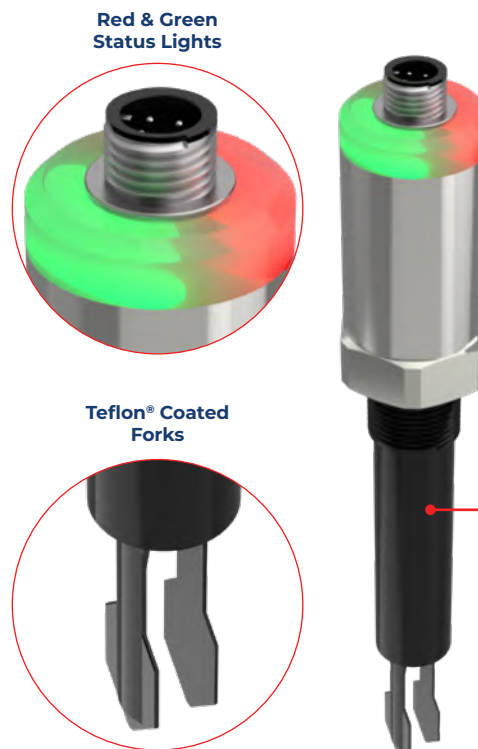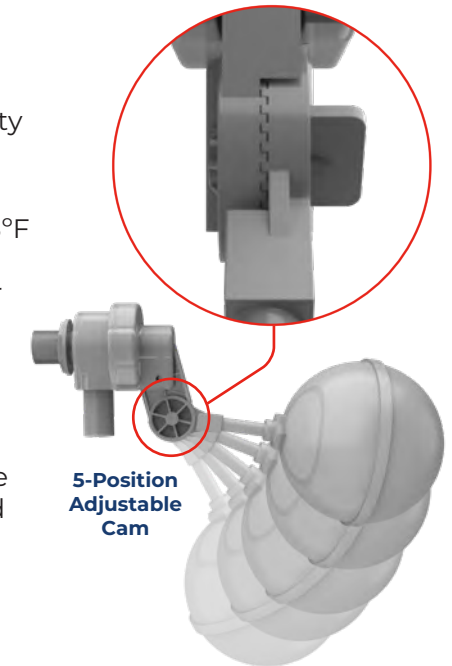
TFS Tuning Fork Level Switch

- ✓ Corrosion Resistant Teflon® Coated SS
- ✓ Suitable for Dense Foam | Viscous Liquids
- ✓ Excellent Choice for Coating Liquids
- ✓ 2" – 16" Lengths
- ✓ NPT Connection
- ✓ Relay Output

The TFS Series is a vibrating type level switch for use in all liquid and slurry applications such as overflow, high, low, and demanding applications, as well as pump protection. The TFS Series is designed for industrial use in all areas of process technology and can be used with liquids and slurries. With a tuning fork insertion length of only 45 mm (1.77"), the TFS switch can be mounted in small pipes and applications with confined space. The TFS Series can be used in difficult conditions including turbulence, air bubbles, and foam.

UltraPro® Series

## UPS-2000 Ultrasonic Level Sensors

UltraPro® 2000 Ultrasonic Level Transmitter

- ⊘ Up to 0.15% Accuracy
- ⊘ Small Dead Band
- ⊘ Simple Programming | Under 1 minute
- ⊘ Field Adjustable
- ⊘ Loop Powered | 2 Wire (4-20mA) Output
- ⊘ Explosion Proof Option

The UltraPro® 2000 Ultrasonic Level Transmitters are 2-wire loop-powered sensors designed to provide reliable and accurate continuous liquid level measurement. The UltraPro® 2000 Series are exceptionally reliable and offer both 4-20mA analog output with HART protocol or RS-485 Modbus.

Some key applications for the UltraPro® 2000 include: chemical storage tanks, waste sumps, bulk storage, tanker trucks, day tanks, process tanks, neutralization tanks, and wastewater applications.

The UltraPro® 2000 Series are designed to work with most types of remote instrumentation such as remote displays and remote monitoring solutions.

SimplConnect Cable Grip Connectors
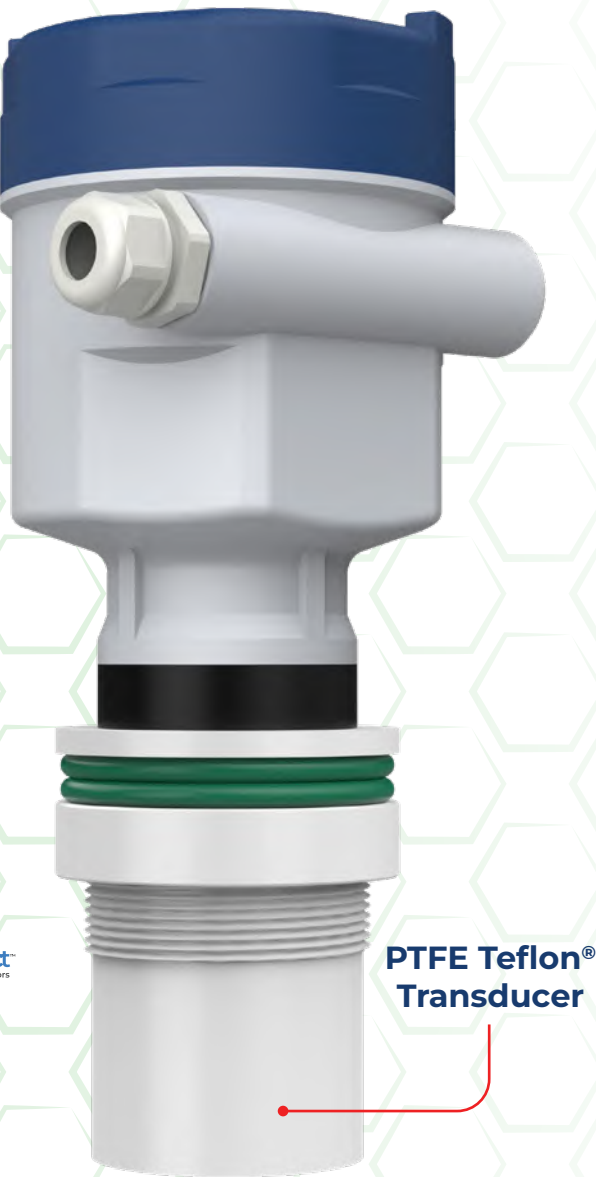
PTFE Teflon® Transducer

L: 8.882 m
D: 1.118 m
18.20 mA 23.6 °C
running

LCD Display

The UltraPro® Series can be connected to one of our many displays.

ShoPro® Display

ABS PVDF PTFE FKM RoHS Compliant CE

TPP Series

PTFE Teflon® Temperature Sensor

- ⊘ Teflon® Provides Superior Corrosion Resistance
- ⊘ Customizable Lengths | Ranges
- ⊘ Phenomenal Accuracy | ± 0.5% F.S.
- ⊘ Large Temperature Range Capabilities
- ⊘ Hirschmann DIN Connector
- ⊘ Suitable for Sticky Liquids
- ⊘ 2-Wire 4-20mA Loop Powered
- ⊘ Local LED Display Option
- ⊘ No Calibration Required

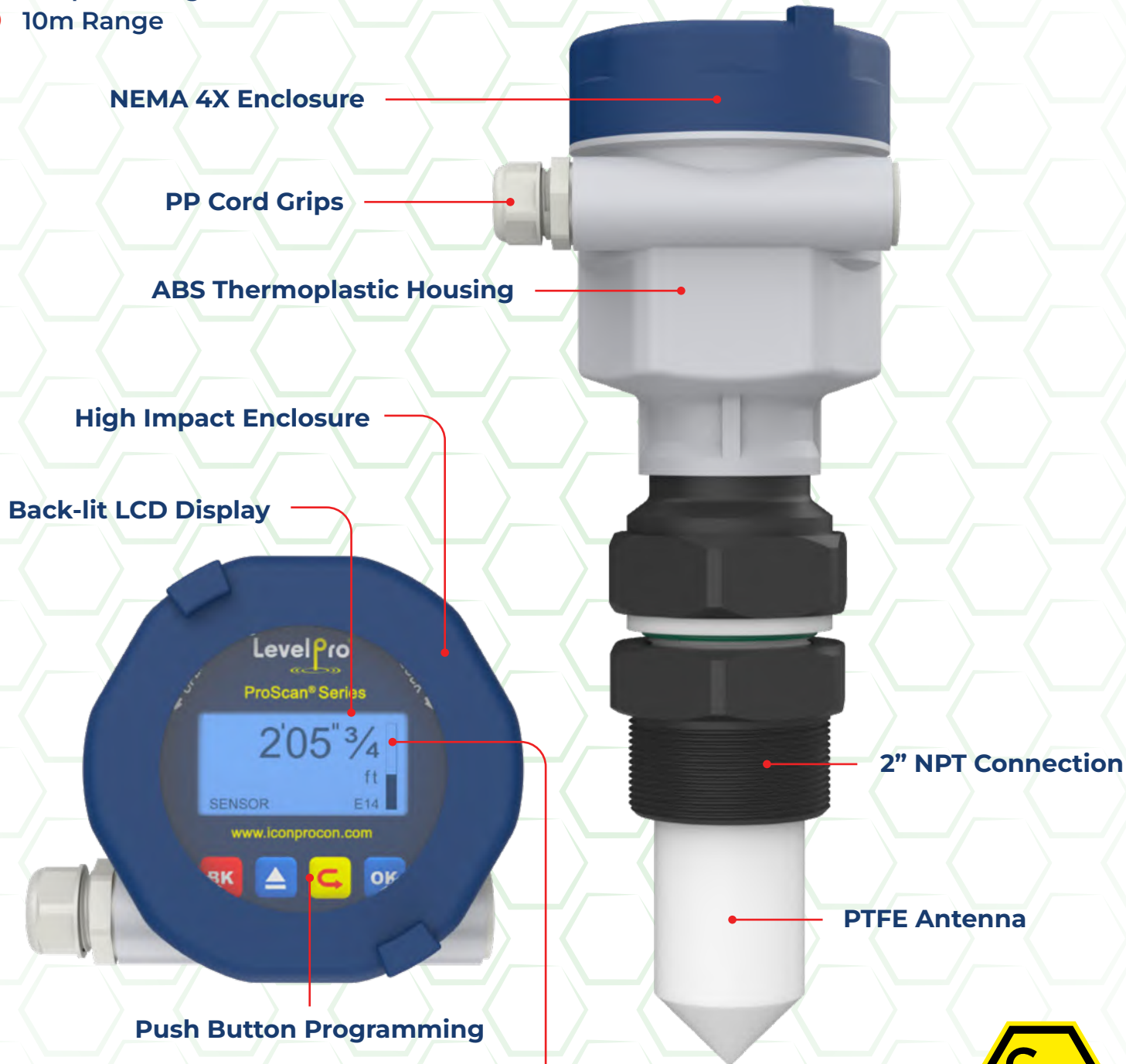**Optional UMD-4 Local Display**

Viewsonic Ultrasonic Level Sensor

- ⊘ Battery Operated
- ⊘ Approx. 5 Years Life Expectancy
- ⊘ Digital LCD Display
- ⊘ All Plastic Design
- ⊘ NEMA 4X Plastic PP Enclosure
- ⊘ Non-Contact Technology
- ⊘ Wireless Communication to Remote Display over 200ft
- ⊘ Remote Applications | No Wiring Required
- ⊘ Low/High Level Display Indication

Level Pro

ProScan®

ProScan® Radar Level Transmitter (26GHz)

- ⊘ Excellent For Foam | Vapor
- ⊘ All Thermoplastic Housing | Antenna
- ⊘ Simple Configuration
- ⊘ 10m Range

NEMA 4X Enclosure

PP Cord Grips

ABS Thermoplastic Housing

High Impact Enclosure

Back-lit LCD Display

2" NPT Connection

PTFE Antenna

Push Button Programming

Visual Level Indication

ProScan® Series
2'05"¾
ft
SENSOR   E14
www.iconprocon.com

PTFE   316SS   RoHS Compliant   CE

ICON
PROCESS CONTROLS
Corrosion-Free
Instrumentation Equipment

ProScan® Radar Level Transmitter (26GHz)

The simple contact-free solution for corrosive, coating, dirty, or crystallizing applications with virtually zero maintenance required

The ProScan® Radar Level Transmitter reliably measures the liquid level inside a tank or sump of both corrosive and non-corrosive liquids.

Utilizing a completely PTFE Teflon® antenna or horn, it sends and receives low-energy radar pulses and calculates the time of flight of the pulse in order to determine your level reading. It's both reliable and accurate, with no requirement for re-calibration.

ProScan® Level Transmitter

- ⊘ 26GHz
- ⊘ Plastic Design | Chemical Resistant
- ⊘ Loop Powered | 2 Wire 4-20mA Output
- ⊘ EX ATEX Rated
- ⊘ 33 ft | 10m Measuring Range

Working Principle

The ProScan Radar Level Transmitter does not contact the process liquid and therefore is an excellent choice for applications that may be corrosive, coating, dirty, or crystallizing.

The ProScan® can be connected to one of our many displays.

ShoPro® Display

ShoPro
00000

ProScan® 2

ProScan® 2 Radar Level Transmitter (80GHz)

- ✓ Excellent For Foam | Vapor
- ✓ All Thermoplastic Housing | Antenna
- ✓ 10m Range

NEMA 4X Enclosure

PP Cord Grips

ABS Thermoplastic Housing

High Impact Enclosure

Back-lit LCD Display

LevelPro®
ProScan® Series

89.236
89.24   in
25.5°C   19.999mA
Levelpro   0000
www.iconprocon.com

BK   ▲   ↵   OK

Push Button Programming

Visual Level Indication

2" NPT Connection

PTFE Antenna

ICON™
PROCESS CONTROLS
Corrosion-Free
Instrumentation Equipment

PTFE | 316SS | RoHS Compliant | CE

ProScan® 2 Radar Level Transmitter (80GHz)

The simple contact-free solution for corrosive, coating, dirty, or crystallizing applications with virtually zero maintenance required

The ProScan® Radar Level Transmitter reliably measures the liquid level inside a tank or sump of both corrosive and non-corrosive liquids.

Utilizing a completely PTFE Teflon® antenna or horn, it sends and receives low-energy radar pulses and calculates the time of flight of the pulse in order to determine your level reading. It's both reliable and accurate, with no requirement for re-calibration.
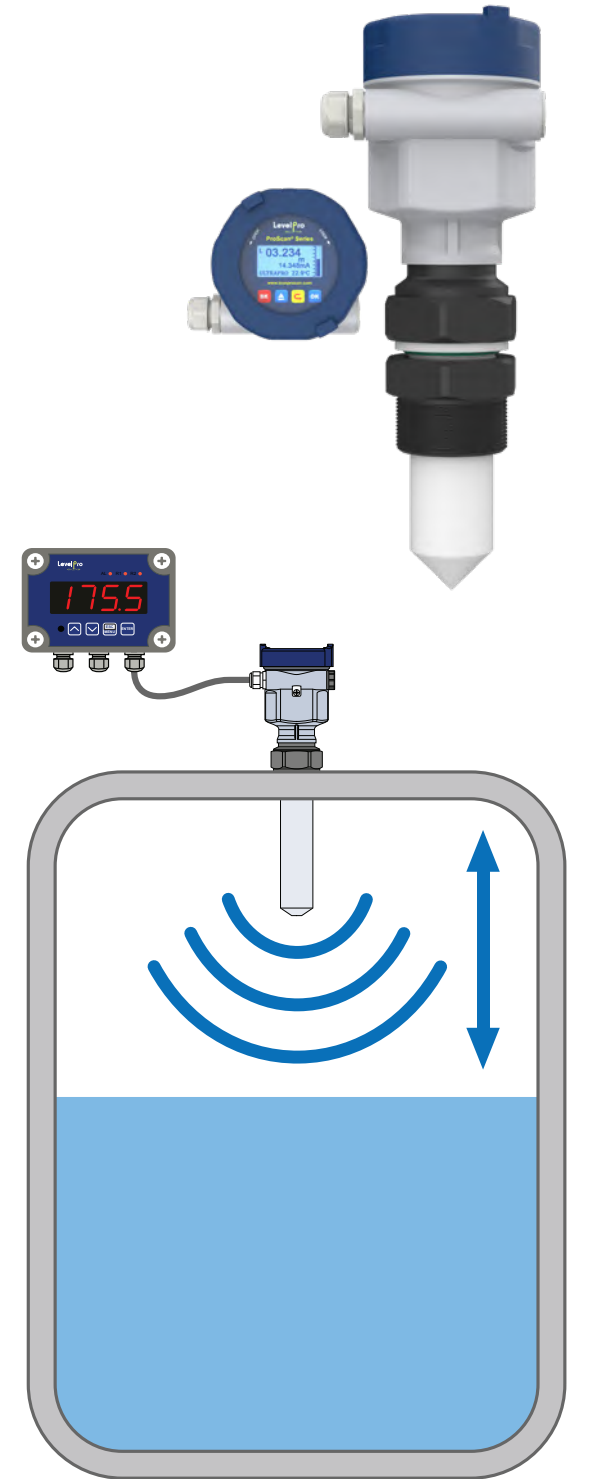
ProScan® 2 Level Transmitter

- ✓ 80GHz
- ✓ Plastic Design | Chemical Resistant
- ✓ Small Dead-Band
- ✓ Simple Programming
- ✓ Loop Powered | 2 Wire 4-20mA Output
- ✓ EX ATEX Rated
- ✓ No Moving Parts
- ✓ 33 ft | 10m Measuring Range

Working Principle

The ProScan Radar Level Transmitter does not contact the process liquid and therefore is an excellent choice for applications that may be corrosive, coating, dirty, or crystallizing.
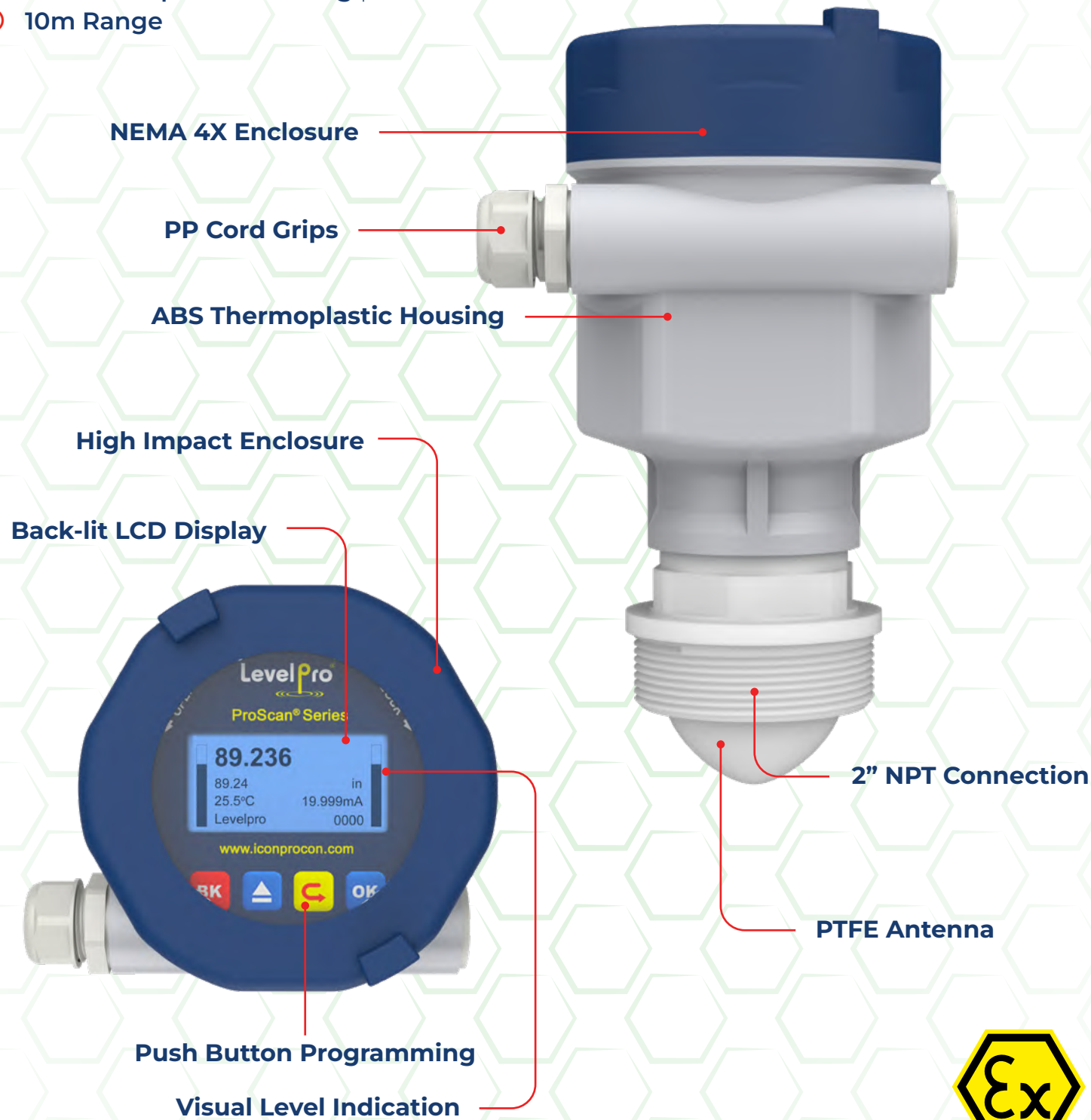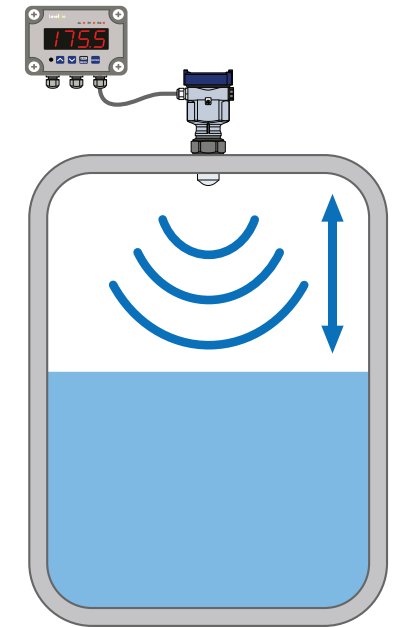
The ProScan® 2 can be connected to one of our many displays.

ShoPro® Display

PTFE

316 Stainless Steel

LevelPro

ProScan® 3

ProScan® 3 Radar Level Transmitter (80GHz)

Bluetooth®

Corrosion Resistant PP Body

Two Wire Loop Powered

Built-in Level

10. 562m

Easy Wiring

Local LCD Display

SimplConnect™

Polypropylene Transducer

1 ½" to 2" Transition Fitting

Small Footprint

⌀73mm

123mm

1 ½" NPT Connection

Home

ProScan® 3

Level(inch)	33.4645
Distance(inch)	86.5353
Current(mA)	8.461
Percentage(%)	27.88
Running State	0
Update Time	2023/11/21 17:06:58

Integrated Level

Rugged 316 SS Body

Monitor Your ProScan® 3 with the Free App

Google play

Available on the App Store

Polypropylene Transducer

2" NPT Connection

| PP | PC | 316SS | RoHS Compliant | CE |

ProScan® 3 Radar Level Transmitter (80GHz)

The future of non-contact level measurement is radar technology!

The **ProScan® 3** 80GHz high frequency technology permits a significantly more precise transmission signal focus. This makes it easier to distinguish between actual level signals and interference signals, making the measurement more reliable coupled with a higher degree of accuracy.

The new **ProScan® 3** series of compact instruments are ideally suited for more complex level applications.

The 80GHz radar signal is capable of penetrating through the top lid of a tank, eliminating the need for a bulkhead fitting, or having the sensor subject to the conditions inside the tank.

Features

- ✓ Bluetooth Connectivity
- ✓ Excellent Reliability and Accuracy
- ✓ Not Affected by Vapor or Outgassing
- ✓ Polypropylene Transducer
- ✓ Integrated Spirit Bubble for Easy Leveling
- ✓ RS-485 Communication | 4-20mA
- ✓ Measurement Under Vacuum | High Pressure
- ✓ Unaffected by Temperature Fluctuations
- ✓ NEMA 4X | IP68 Protection

Plastic Tank

Emitted Signal

3° Angle

Signal Reaching Liquid

Working Principle

The **ProScan® 3** (80GHz) radar is a transmitter for continuous level measurements using fast sweep Frequency Modulated Continuous Wave (FWCW) technology. The transducer of radar continuously emits signal sweeps with a constant frequency towards the liquid surface. The reflected signal is then captured by the transducer. The time to send and receive is known as the time of flight.
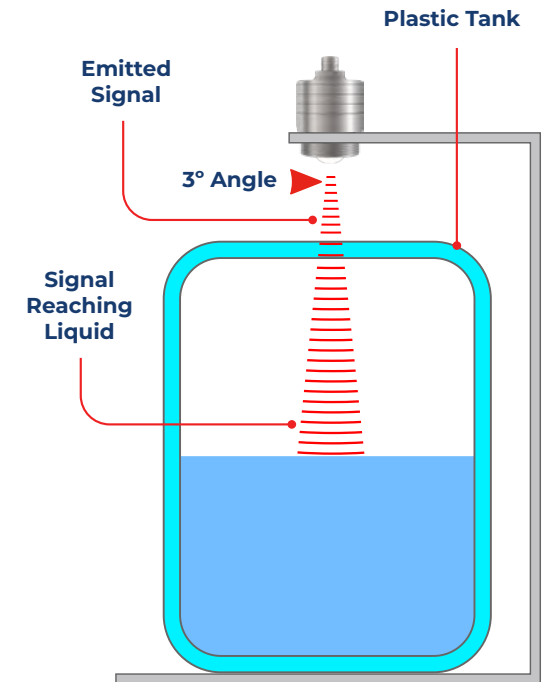
The ProScan® 3 can be connected to one of our many displays.

ShoPro® Display

00000

Polypropylene

316 Stainless Steel

SP100 | TVL | ITC-250

LevelPro® Level Process Displays

LevelPro® Level Process Displays

The LevelPro® Level Process Displays and Controllers are the industry's most rugged and reliable wall-mount remote level displays.

SP100 — ShoPro® Series Level Display

- ✓ Super Bright 5 Digit LED Display
- ✓ 4-20mA Input
- ✓ NEMA 4X Enclosure
- ✓ DC Output Supply to Sensor
- ✓ 2 x 5A Relays
- ✓ SimplConnect® Cord Grips Included

LevelPro's® SP100 and TVL come as a complete all-in-one unit that's ready to use right out of the box.

Included is a bright LED display, NEMA 4X enclosure, polycarbonate faceplate, cord grips and corrosion-free plastic captive screws.

The industrial design of the SP100 and TVL Series ensures that the units will withstand the industry's most corrosive environments.

SimplConnect Cable Grip Connectors

Both are available with either 2 relay outputs or 1 relay + 4-20mA, and are well equipped for automating your tank level processes.

TVL Tank Level Display & Controller

- ✓ Controller + NEMA 4X Enclosure
- ✓ Input : 4-20mA
- ✓ LED Display-Adjustable Light Intensity
- ✓ SunBright Technology for Outdoor Applications
- ✓ 5A Relay Output + 4-20mA Output
- ✓ Power Supply Output: 24V DC to Sensor
- ✓ Signal Peak Value Detection
- ✓ SimplConnect® Cord Grips Included

SimplConnect Cable Grip Connectors

ICON PROCESS CONTROLS — Corrosion-Free Instrumentation Equipment

ITC-250L Loop Powered Level Display

- ✓ Loop Powered
- ✓ Input : 4-20mA
- ✓ NEMA 4X Enclosure
- ✓ SimplConnect® Cord Grips Included

OUTDOOR VISIBILITY DISPLAY AUTOMATICALLY CHANGES TO GREEN

250L — Loop Powered Display
www.iconprocon.com
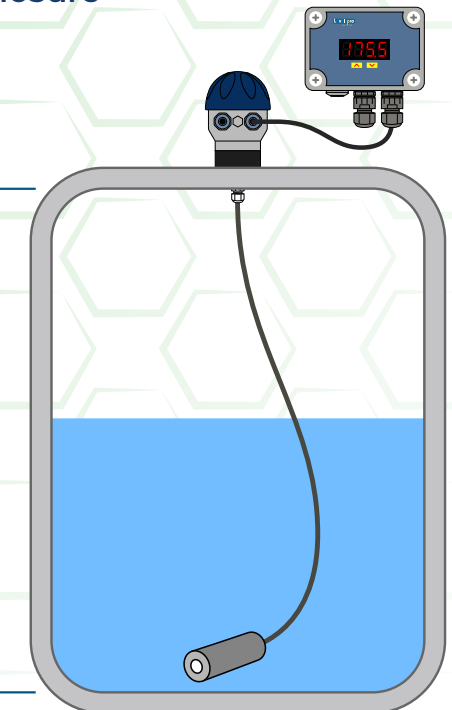
Chameleon Color Display

ITC-250B Battery Powered Level Display

- ✓ LiSOCl2 Lithium Battery Powered (Industry's Longest Lasting Industrial Battery)
- ✓ Input : 4-20mA
- ✓ SimplConnect® Cord Grips Included
- ✓ NEMA 4X Enclosure

250B — Battery Powered Display
www.iconprocon.com

SimplConnect Cable Grip Connectors

20mA Full

4mA Empty

TVU Series

LevelPro® TVU Universal Process Displays

It's kind of a big deal

LevelPro® TVU Series Universal Process Displays

The TVU Series Process Display isn't just rugged and reliable — it's a giant in the world of (multi)color displays.

TVU Series — Universal Process Display

The TVU Series Multi-Color LED Level Process Display and Controller is among the industry's most rugged and reliable wall-mount remote level displays.
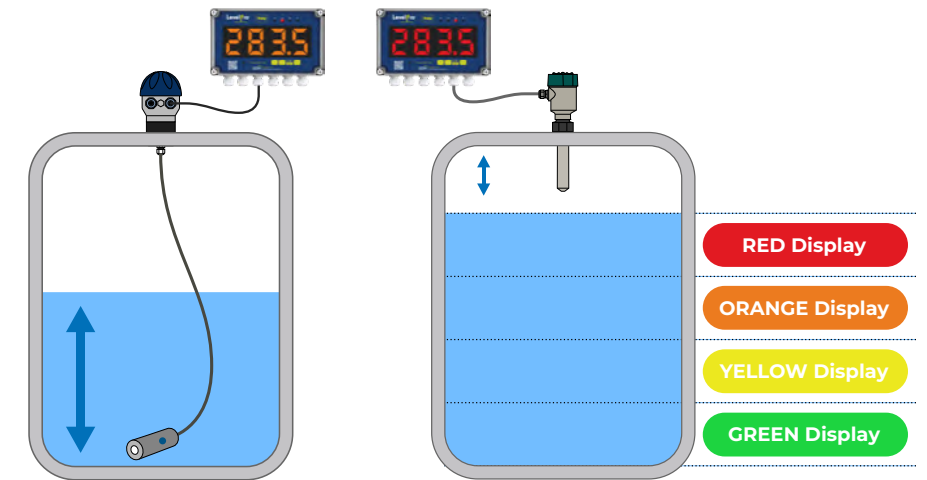
LevelPro® TVU Series comes as a complete all-in-one unit that's ready to use right out of the box. Included is a vivid SunBright® LED Display with adjustable color and brightness, NEMA 4X enclosure, polycarbonate faceplate, a full set of SimplConnect® cord grips and corrosion-free plastic captive screws.

The industrial design of the TVU Series ensures that it will withstand the industry's most corrosive environments while remaining highly visible and easy to read.

Available with either 4 relay outputs or 2 relay + 4-20mA output, the TVU Series is great for automating your tank level processes.

Multi-color Display

- ✓ Acts as a Stack Light
- ✓ Colors Mimic Process Conditions
- ✓ Industry's Largest Multi-Color LED Display

RED Display
ORANGE Display
YELLOW Display
GREEN Display

SimplConnect™ Cable Grip Connectors

SunBright

- ✓ **Programmable LED Colors with SunBright® Technology for Outdoor Applications**
- ✓ **Universal Inputs — Level | Flow | Pressure | Temperature**
- ✓ **8 Levels of Brightness | Extra Large LED Numbers**
- ✓ **Signal Peak Value Detection | Dampens Noise**
- ✓ **6 SimplConnect® Cord Grips Included | No Add Ons**
- ✓ **Relay Lights & Audible Alarm Function**
- ✓ **Completely Thermoplastic | Corrosion-Free**
- ✓ **NEMA 4X Enclosure**

ICON PROCESS CONTROLS — Corrosion-Free Instrumentation Equipment

PC | RoHS Compliant | C€

ITC-450 Series

Tank Level Display + Controller

- ✓ Large Bright LED Display
- ✓ 2 Relay + 4-20mA Outputs
- ✓ Optional NEMA 4X Enclosure
- ✓ 4 Configurable Relays (5 Amp)
- ✓ Adjustable Display Brightness
- ✓ Analog Output 4-20mA + 2 Relays
- ✓ 4-Digit LED Display
- ✓ Sensor Power Supply 24VDC Output
- ✓ RS-485 (Modbus RTU)

Mini B Series Level

Chemical Combo Package | 120VAC

LIQUID LEVEL COMBO PACKAGE

- ✓ Level Sensor
- ✓ Display + Visual Alarm
- ✓ Junction Box
- ✓ Fill Pipe Connect
- ✓ 10' Extension Cord

LP100 Tank Level Junction Box

- ✓ NEMA 4X
- ✓ 2" NPT
- ✓ VaporBloc® Sealing System

VaporBloc®

100 Series Sensor

- ✓ PVC | PP | PVDF | 316 SS | PTFE Teflon®
- ✓ Integral Weight | No Floating
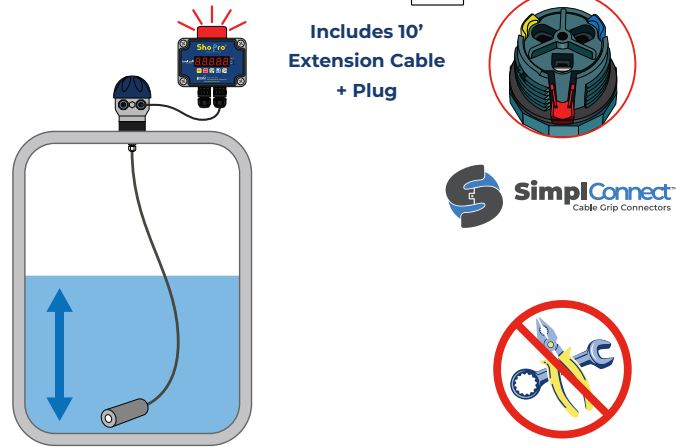- ✓ Teflon® Jacketed Cable
- ✓ Kalrez® O-Ring Seal

Sentinel®

- ✓ NEMA 4X
- ✓ Battery Operated
- ✓ Scheduled Call-Outs

SENTINEL

ShoPro® Display

- ✓ Pre-programmed
- ✓ Pre-wired

Includes 10' Extension Cable + Plug

SimplConnect™ Cable Grip Connectors

ClamPro® Quick Fit

- ✓ Connects Directly Onto Fill Pipe

ClamPro®

CFL Series Level

Chemical Combo Telemetry Package

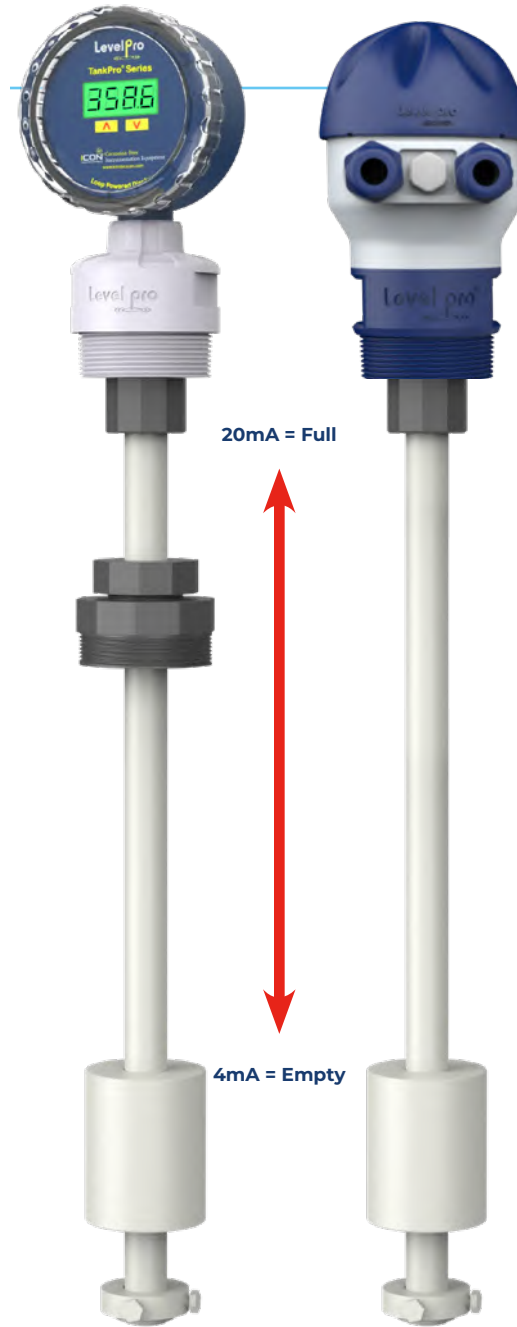**LIQUID LEVEL COMBO PACKAGE**

- ✓ Continuous Level Float
- ✓ Visual Alarm Flashing HI/LO Level
- ✓ PVC | PP | PTFE | 316SS

Skip the dip

20mA = Full

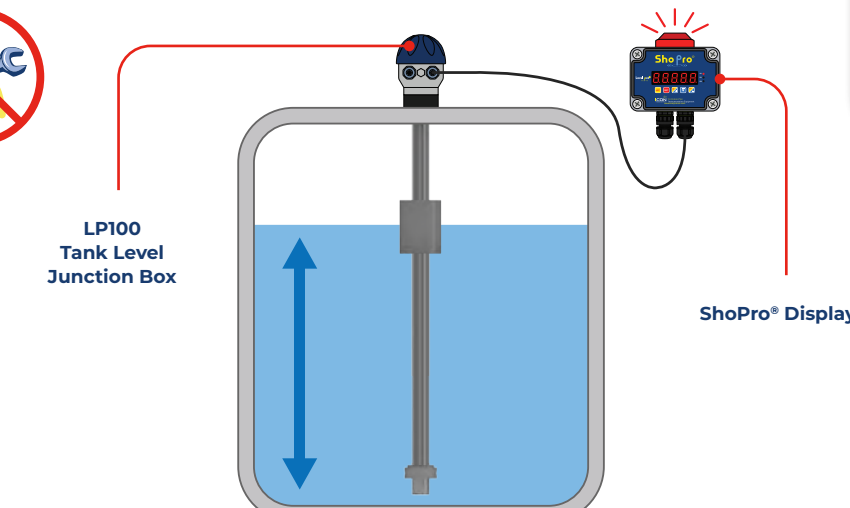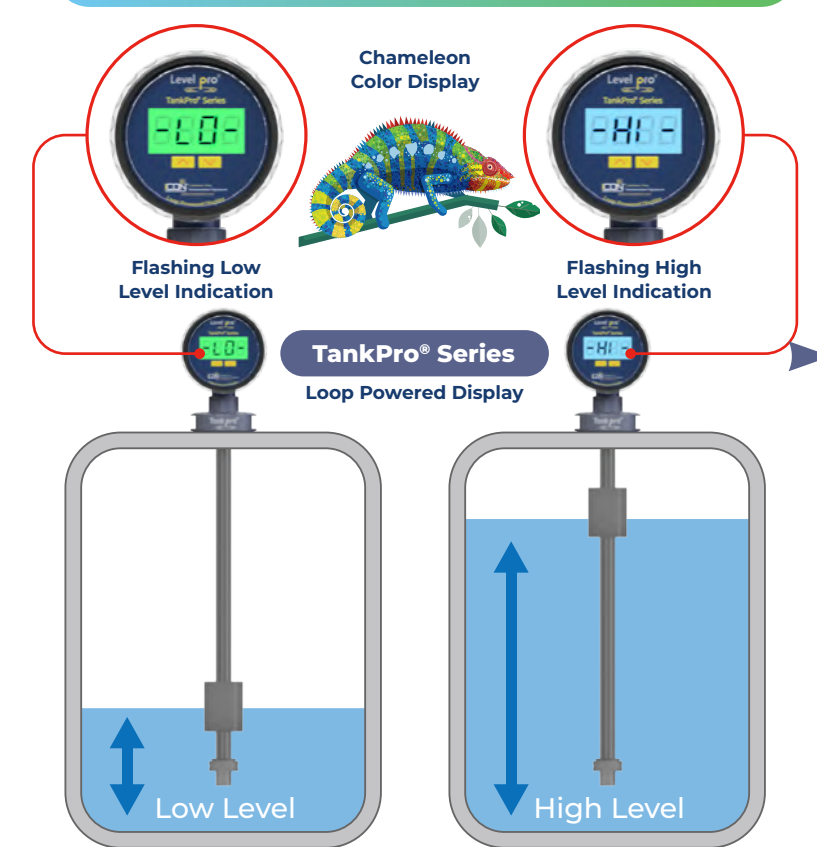4mA = Empty

Loop Powered to Controller

- ✓ Pre-programmed
- ✓ Pre-wired

OUTDOOR VISIBILITY DISPLAY AUTOMATICALLY CHANGES TO GREEN

Chameleon Color Display

Flashing Low Level Indication

Flashing High Level Indication

TankPro® Series Loop Powered Display

Low Level

High Level

LP100 Tank Level Junction Box

ShoPro® Display

Sentinel Series LT

Level Pro

Sentinel® Remote Tank Level Monitoring

Battery Operated — No Power Cables
(Wired VAC available)

Activate without Opening Lid

SENTINEL

- Battery Operated – No Programming
- Remote Tank Monitoring via Cellular Networks
- E-mail/text Reporting Alarms
- 24/7 access to data through Cloud Based Sentinel 247™ Online
- Battery powered up to 5 years (3 calls/day)
- Variety of Trigger Points
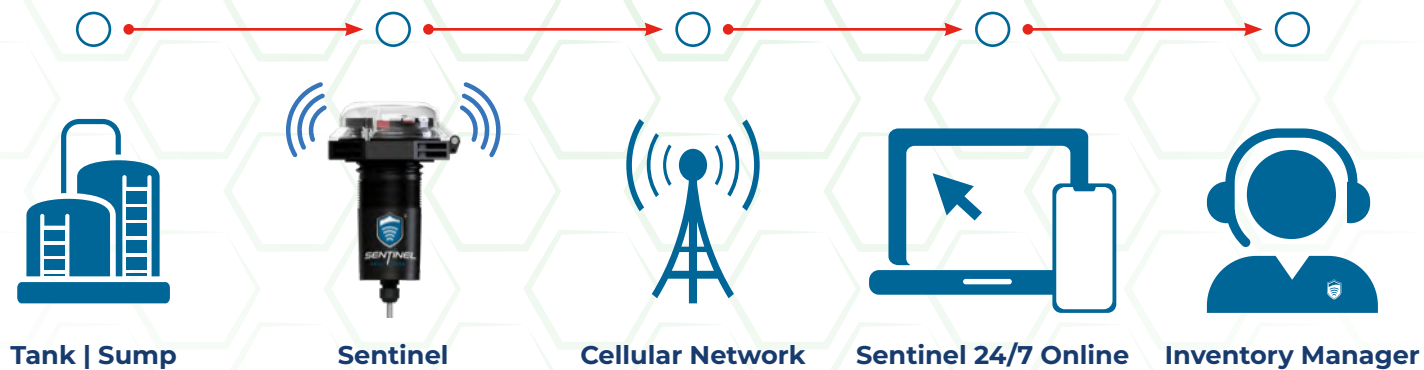- Mobile Ready Access
- Optional LB50 Mounting Bracket
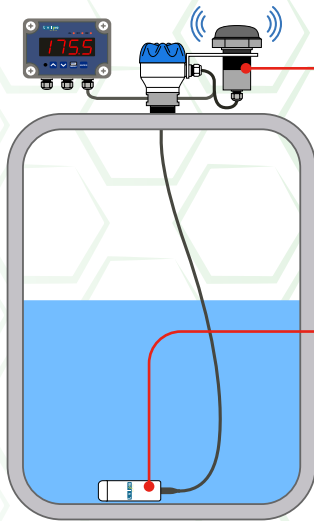
Sentinel LTE with Bracket

Optional PVC | PP | PVDF | 316 SS Chemical Resistant 100 Series Submersible Level Sensor

Sentinel LTE Powers Sensor No External Power Supply Required
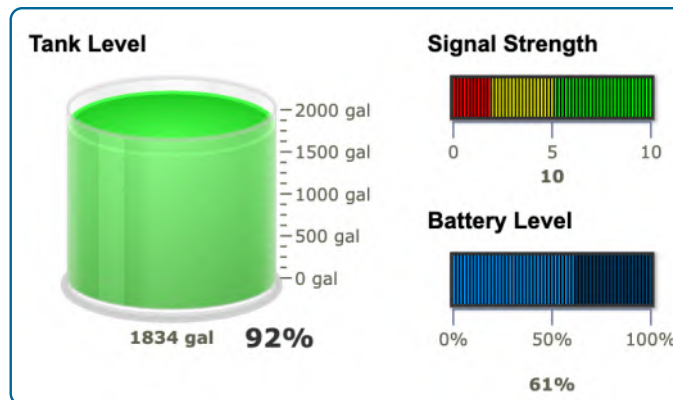
How It Works

Tank | Sump → Sentinel → Cellular Network → Sentinel 24/7 Online → Inventory Manager

Access Tank Data From Anywhere

Current Tank Statistics

Tank Level
2000 gal
1500 gal
1000 gal
500 gal
0 gal
1834 gal 92%
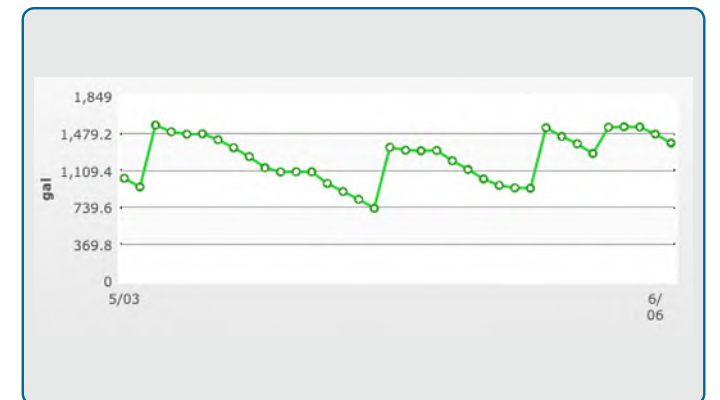
Signal Strength
0   5   10
10

Battery Level
0%   50%   100%
61%

Tank History

1,849
1,479.2
1,109.4
739.6
369.8
0
5/03   6/06

P14 Series

ProCon® P14 Series — pH Sensors

SimplCal®

Direct D400 Controller with SimplCal® Auto Calibration

Junction Box

M12 Quick Connection

SimplConnect™
Cable Grip Connectors
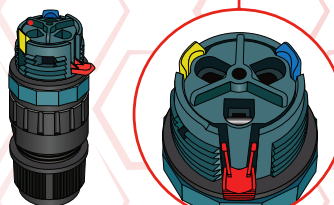
TUPA Series Fitting

¾" NPT Connection
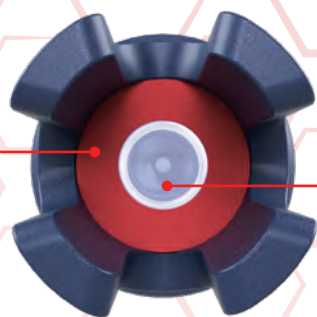
NEXUS®

Nexus® Solid Reference

Blue Glass Electrode

ICON
PROCESS CONTROLS
Corrosion-Free
Instrumentation Equipment

PP

RoHS Compliant CE

ProCon® P14 Series — pH Sensors

High performance industrial pH sensor for harsh applications

The ProCon® P14 series offers the ultimate combination of durability, functionality and long-term performance; exactly what is required for industry's most complex applications. The Nexus® reference eliminates reference poisoning. The sensors are available in flat planar or bulb style design.

All measurement functions are combined in one compact body — measuring electrode, temperature sensor and an inner reference chamber. The 2-wire 4-20mA, 4-wire or 4-20mA + RS485 output options simplify calibration and communication with remote displays and controllers..

- ✓ 4-20mA Output
- ✓ Temperature Compensated
- ✓ Nexus® Solid KCl Reference
- ✓ No Preamp Required
- ✓ ¾" NPT Connection
- ✓ PP or PPS Body Materials
- ✓ RS 485 Modbus Communication

🚫 **PREEMPT** THE **PREAMP** 🚫
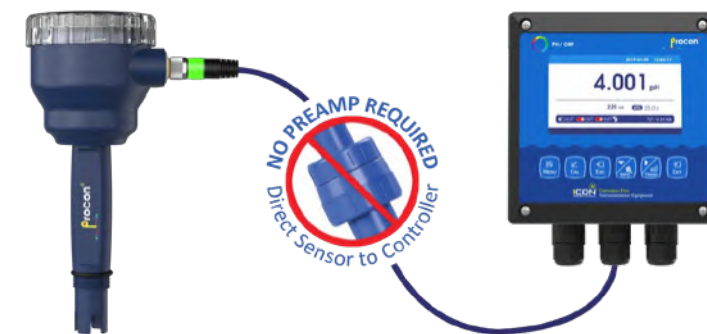
NO PREAMP REQUIRED
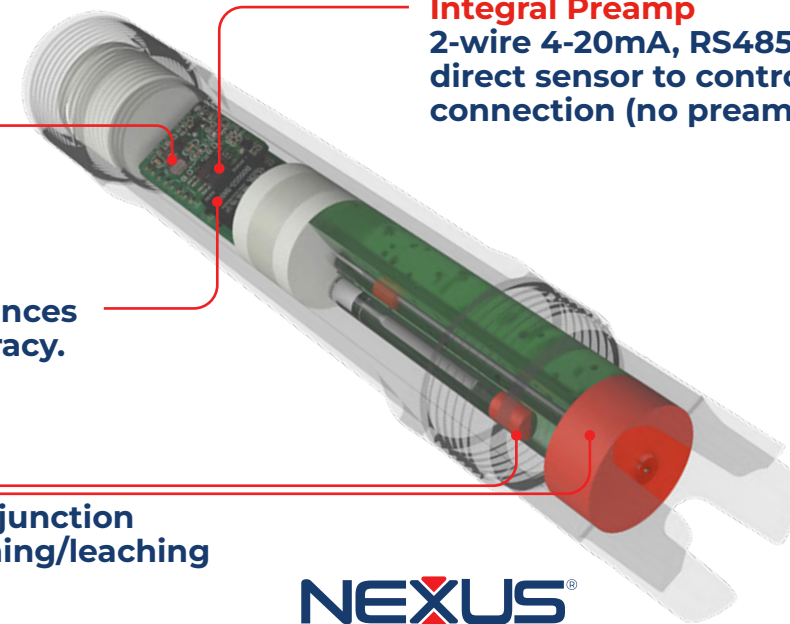Direct Sensor to Controller

Integral Preamp
2-wire 4-20mA, RS485 direct sensor to controller connection (no preamp)

Enhanced chip technology allows for remote calibration as well as diagnostic data

Digital output — longer distances without compromising accuracy.

Nexus® technology
• **Solid KCl infused reference junction**
• **Eliminates reference poisoning/leaching**
• **Extended life expectancy**

NEXUS®

7 Distinct Sensors Designed for the Toughest pH Environments

Ultra-pure H2O	General	Complex	HF < 1000ppm	HF > 1000ppm	Seawater	Desulfurization
P14P	P14G	P14C	P14H	P14F	P14S	P14D

R7 Series

ProCon® R7 Series — ORP Sensors

SimplCal®

Direct D400 Controller with SimplCal® Auto Calibration
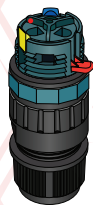
SimplConnect™ Cable Grip Connectors

TUPA Series Fitting

Nexus® Solid Reference
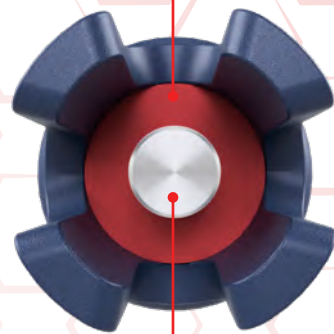
Platinum Electrode R7G

Gold Electrode R7C

Junction Box

M12 Quick Connection

¾" NPT Connection

PP | RoHS Compliant CE
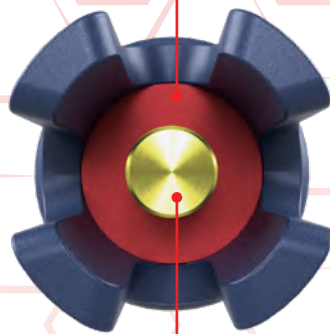
ProCon® R7 Series — ORP Sensors

The gold standard of high performance industrial ORP sensors for general or complex applications

The ProCon® R7 Nexus® series has been engineered for ruggedness, longevity and accuracy and features a platinum or gold electrode for enhanced accuracy.

All measurement functions are combined in one compact body — measuring electrode, temperature sensor and an inner reference chamber. The 2-wire 4-20mA, 4-wire or 4-20mA + RS485 output options simplify calibration and communication with remote displays and controllers..

- ✓ 4-20mA Output
- ✓ Temperature Compensated
- ✓ Nexus® Solid KCl Reference
- ✓ Quick Response Time
- ✓ ¾" NPT Connection
- ✓ PP or PPS Body Materials
- ✓ RS 485 Modbus Communication
- ✓ No Preamp Required
- ✓ High Accuracy

🚫 **PREEMPT** THE **PREAMP** 🚫
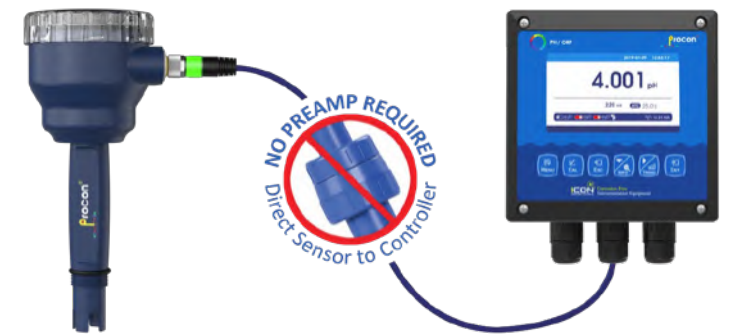
NO PREAMP REQUIRED
Direct Sensor to Controller

Integral Preamp
2-wire 4-20mA, RS485 direct sensor to controller connection (no preamp)

Enhanced chip technology allows for remote calibration as well as diagnostic data

Digital output — longer distances without compromising accuracy.

Nexus® technology
- **Solid KCl infused reference junction**
- **Eliminates reference poisoning/leaching**
- **Extended life expectancy**

NEXUS®

RS-485
Modbus RTU

4-20mA+RS485
Direct Sensor Output

Advanced electronic circuity stores pH data for automatic sensor recognition and trouble-free calibration when connected to the ProCon® Controller

PVC Jacket
Aluminum Shield
4-20mA-
4-20mA-
Pin Connectors
Braided Shield

C Series

ProCon® C Series — Conductivity | TDS | Salinity | Resistivity Sensors
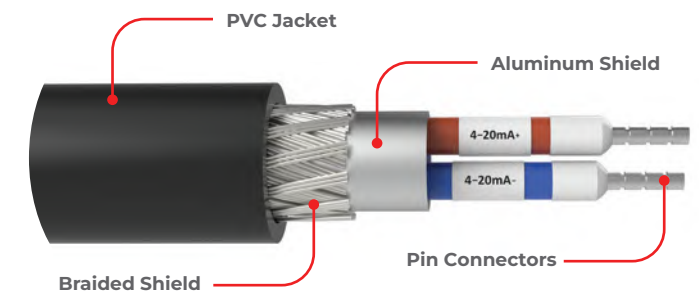

SimplCal®

Direct D400 Controller with SimplCal® Auto Calibration

Junction Box

M12 Quick Connection

¾" NPT Connection

SimplConnect™ Cable Grip Connectors

TUPA Series Fitting

Cancel the Conductivity Module

PP **RoHS Compliant** CE

ICON PROCESS CONTROLS Corrosion-Free Instrumentation Equipment

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ProCon® C Series — Conductivity | TDS | Salinity | Resistivity Sensors

Tough but sensitive — High performance, industrial strength sensors for harsh applications from 0µS – 2,000mS

Measuring specific conductivity of aqueous solutions is becoming increasingly important for determining impurities in water. The ProCon® C series conductivity sensors have been proven to operate seamlessly in industrial process applications.

The ProCon® line of analytical sensors have been designed for difficult industrial applications and to outperform even in extreme conditions.

The 2-wire 4-20mA, 4-wire or 4-20mA + RS485 output options simplify calibration and communication with remote displays and controllers.

- ⊘ Conductivity | TDS | Salinity | Resistivity
- ⊘ Range 0µS – 2,000mS
- ⊘ No Costly Conductivity Module Required
- ⊘ Direct 4-20mA & RS485 Outputs
- ⊘ ¾" NPT Connection
- ⊘ Factory Calibrated

RS-485 Modbus RTU

4-20mA+RS485 Direct Sensor Output

Advanced electronic circuity for automatic sensor recognition and trouble-free calibration when connected to the ProCon® controller

PVC Jacket
Aluminum Shield
Braided Shield
Pin Connectors
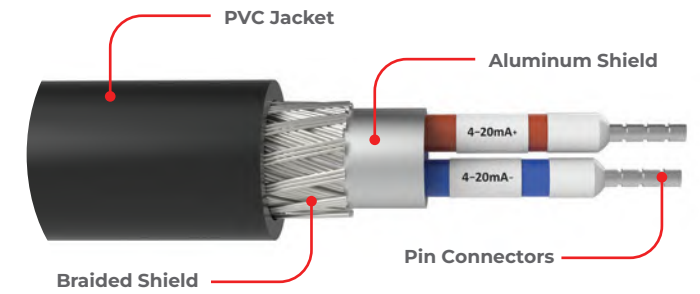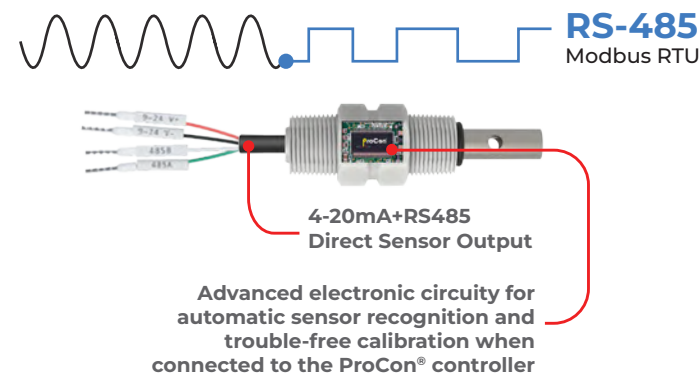
9 Distinct Sensors Designed to Outperform

High Purity	Sanitary	Complex	2-Pole Graphite	4-Pole Graphite	Titanium	Toroidal	Graphite	High Temp
C250	C350	C450	C550	C554	C650	C750	C850	C950

Controllers

pH | ORP | Conductivity | TDS | Resistivity | Salinity Controllers

Measurement + Unit

Year / Month / Day

2023-11-09 12:53:17

83.01 µS/cm

Time : Minutes:Seconds

Sensor Communication Warning

1000Ω ATC 25.0 °C

Temp.°F °C

Automatic Temp Compensation

Relay 1 - Blue is Off

Sensor Cleaning Symbol

Relay 2 - Red is On

Conductivity / TDS / Salinity / Resistivity

Relay 3

mA 1
mA 2

Instrument type

SimplCal®

SimplConnect™
Cable Grip Connectors
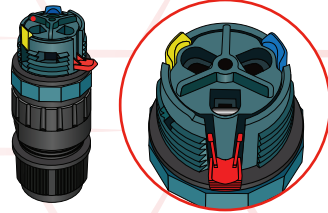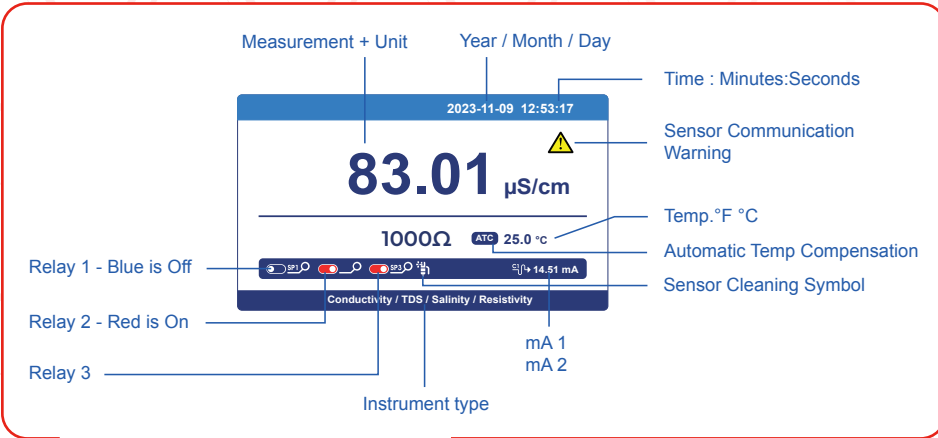
Color Dual Display

IP66 | NEMA 4X Polycarbonate Enclosure

- ✓ Large Color LCD Display
- ✓ SimplCal® Calibration
- ✓ Three Relay Control Switches
- ✓ Password Protection
- ✓ Data Recording | Curve Display | Data Upload Function
- ✓ Manual and Automatic Temperature Compensation
- ✓ High & Low Alarm and Hysteresis Control
- ✓ 4-20mA & RS48 Output Modes

Economy	Color LED	Single Data Trending	Dual Data Trending	Single NEMA 4X	Dual NEMA 4X	Universal 5-Channel
D300/C300	D400/C400	D500/C500	D520/C520	D700/C700	D720/C720	U900

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pH | ORP | Conductivity | TDS | Resistivity | Salinity Controllers

High Performance Industrial Digital Analyzer Controllers

The ProCon® series of industrial controllers feature a modular design that's both easy to install and operate providing first measurement values in under one minute.

ProCon® controllers are packed with all the extra features included. No need to pay extra for relay, 4-20mA or RS485 outputs. The SimplCal® feature makes calibrating your sensor easier and quicker than ever before.

The cost-saving quick and simple setup is done through our user-friendly step-by step on-screen menu.

Active display of red alarm LED provides notification of out-of-bounds sensor readings and indication for sensor cleaning/recalibration or replacement.

U900 Universal Industrial Analytical Controller

SimplCal®

- ✓ Data Recording | Curve Display | Data Upload Function
- ✓ Multiple Automatic SimplCal® Calibration
- ✓ Manual and Automatic Temperature Compensation
- ✓ Three Relay Control Switches
- ✓ High & Low Alarm
- ✓ 4-20mA & RS485 Multiple Output Modes
- ✓ Password protection

7 Inch Color Touch Screen

5 Discrete Channel Inputs

The Ultimate High Performance Universal Industrial Analytical Controller

This controller offers brilliant display quality and high power visualization. The touchscreen is both easy to navigate as well as being user friendly.

The price-performance ratio of being able to monitor five distinct sensors at the same time makes it an excellent investment.

The U900 can be integrated into a network, and also meet the ever-increasing demands for transparency and data provision.

pH • ORP • Conductivity • TDS • Resistivity • Salinity
Dissolved Oxygen • Level • Turbidity • Free Chlorine
NO3 • Temperature • Chemical Oxygen Demand

truflo®
OBS | PPS | PPT

Pressure Sensors

The OBS Series is the industry's only integral molded one-piece plastic pressure gauge and gauge guard.
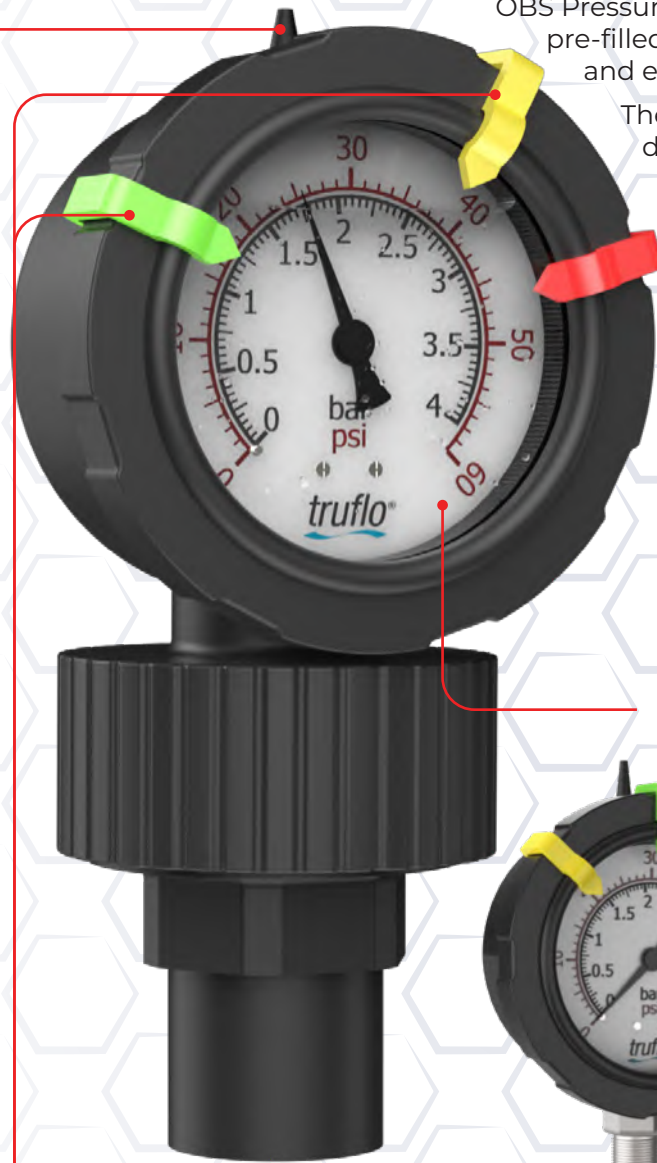
Gauge guards are utilized to protect the pressure gauge from any corrosive media in the process system. The OBS Series Chemical Pressure Gauges are truly unique and industry leading when it comes to pressure measurement in corrosive environments.

OBS Pressure Gauges are a one-piece design and come factory pre-filled, resulting in industry leading accuracy. They save time and effort, eliminating the need for filling.

The 3 movable red, yellow and green range tabs are designed to act as a visual pressure alert for bag or filter change-outs.

- ⊘ **No Filling or Assembly Required – One Piece Design**
- ⊘ **Excellent Chemical Resistance**
- ⊘ **Glycerin Filled | (Silicone Optional)**
- ⊘ **Teflon® or FPM Diaphragm**
- ⊘ **Large 2 ½" Display**
- ⊘ **½" MNPT | FNPT | Flange | Socket**

Factory Pre-Filled

Range Markers

Atmospheric Pressure Compensator

| PVC | PP | PVDF | RoHS Compliant | CE |

ICON PROCESS CONTROLS
Corrosion-Free Instrumentation Equipment

Pressure Sensors

The TruFlo® PPT pressure transmitters/switches are rugged, accurate and reliable.

The TruFlo® PPT is available with a junction box for an extra measure of durability

The Truflo® PPT Series is the industry's most accurate and reliable pressure transmitter and switch. This transmitter is truly unique when it comes to pressure measurement in corrosive environments.

The PPT Pressure Transmitters are a one-piece design and come equipped with a bright LED display that will change from green to red in any upset condition. The PPT pressure transmitter is equipped with a 4-20mA output + 2 Relays (NPN or PNP). This feature is great for pump protection to prevent pumps from running dry.

The PPT Series is available in PP, PVDF & 316SS and are equipped with either a ceramic or stainless steel sensing diaphragm. The NEMA 4X enclosure and polycarbonate faceplate give the PPT a rugged, industrial design that allows it to stand up to the industry's most corrosive environments.

PPT Digital LED Pressure Transmitter | Switch

- ⊘ **High Accuracy | ± 0.25%**
- ⊘ **330° Rotating Head | Tri-Display**
- ⊘ **LED Changes from Green to Red in Upset Condition**
- ⊘ **4-20mA + 2 Relay Outputs**
- ⊘ **PP | PVDF | 316 SS**
- ⊘ **IP66 | NEMA 4X**
- ⊘ **Psi | Bar | kPa | Kg/cm2**

Green
Within Parameters

Red
Upset Condition

PP | PVDF

330° Rotation

316 SS

| PP | PVDF | 316SS | RoHS Compliant | CE |

truflo®
PRD Series

LevelPro
LP Series

Digital LED Pressure Transmitter | Switch

- High Accuracy
- LED Display
- Small Footprint | Perfect for OEM Skid Systems
- Alarm Outputs

- Miniature Size
- 4-20mA + 2 Relay Outputs
- LED Display | Visible in the Dark
- Psi | Bar | kPa | Kg/cm2 | in/wc

Protect your equipment

The Truflo® PRD Series is an excellent choice, providing high accuracy and reliability. The PRD Series is truly unique when it comes to pressure measurement in corrosive environments.
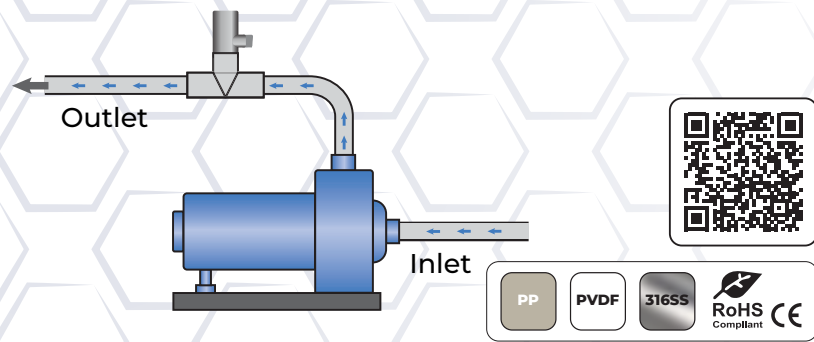
The Truflo® PRD pressure transmitters are the perfect solution for OEM skid manufacturers because of their compact design.

PRD pressure transmitters are available in PP, PVDF & 316 SS and come equipped with a bright LED display that will change from green to red in any upset condition.

The PRD has a 4-20mA output + two (2) 1 amp, NPN or PNP relays.

LED Display

Available in PP | PVDF | 316 SS

Ceramic or Stainless Steel Diaphragm

M12 Quick Connection

Example

- Prevent Pumps from Running Dry
- Notification for Filter | Strainer Change-Out
- Output to Alarm | Shut Off Pump

LED Upset Condition Change

Upset Condition

Outlet

Inlet

PP | PVDF | 316SS | RoHS Compliant | CE

LevelPro
GI Series

All Plastic Gauge Guard

- Teflon® Diaphragm
- Protects Gauge from Corrosive Liquids
- Pressure Rating: 200 Psi
- Protects against Vibration | Surges

In-Line Pressure Transmitter | Switch

PP | PVDF

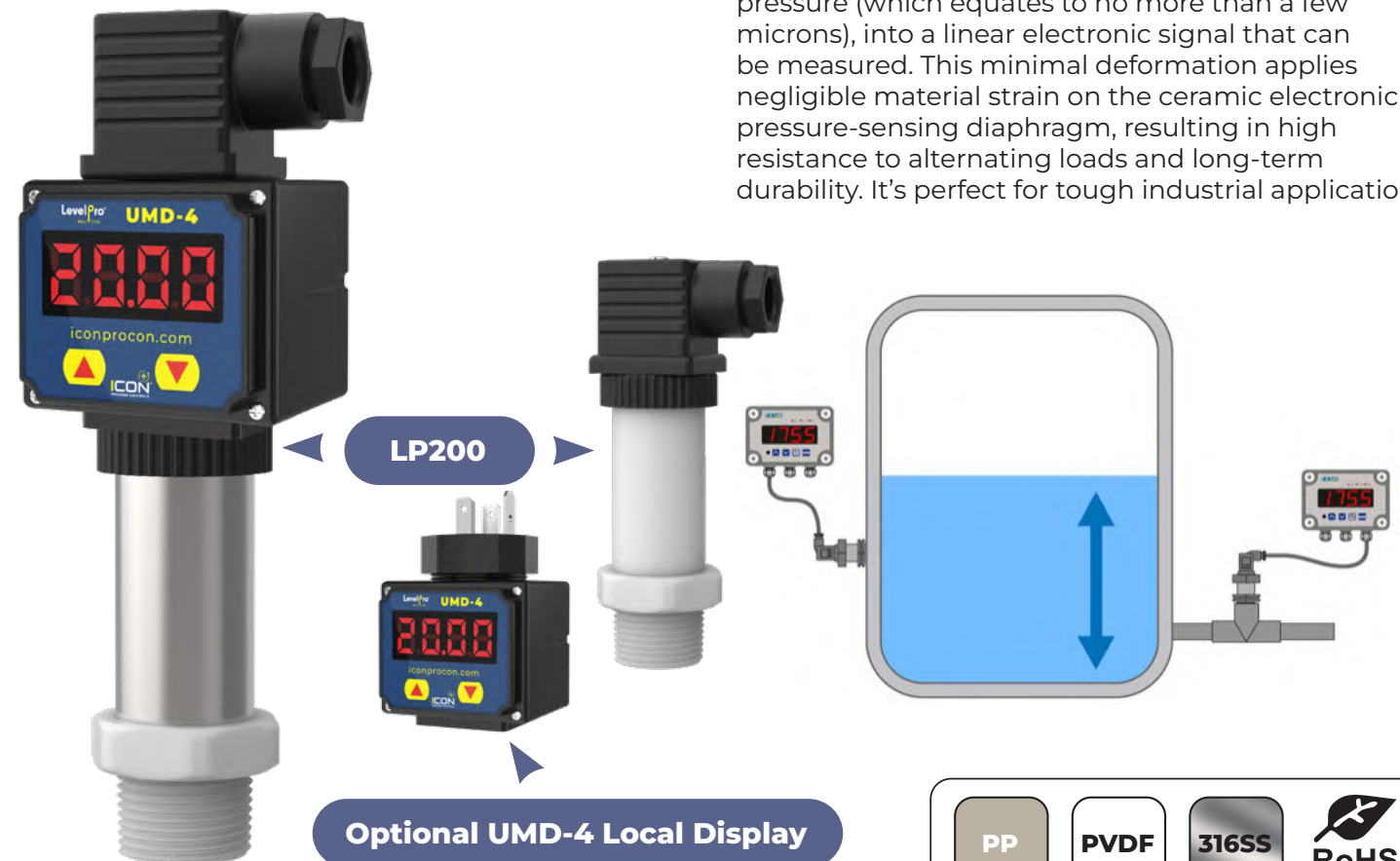M12 Quick Connect

½" MNPT

Ceramic Diaphragm

316SS

LP50

¼" MNPT

Features

- PP | PVDF | 316SS Body
- 0 – 60 | 0 – 100 | 0-160 Psi
- 4-20mA Output | 2 Wire Loop Powered
- NPT Connection
- Ceramic Sensing Diaphragm
- Easy Installation
- 0.25% F.S. | High Accuracy
- No Programming Required
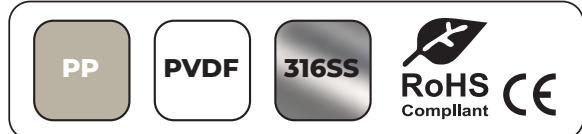- Temperature Compensated
- Excellent Chemical Resistance
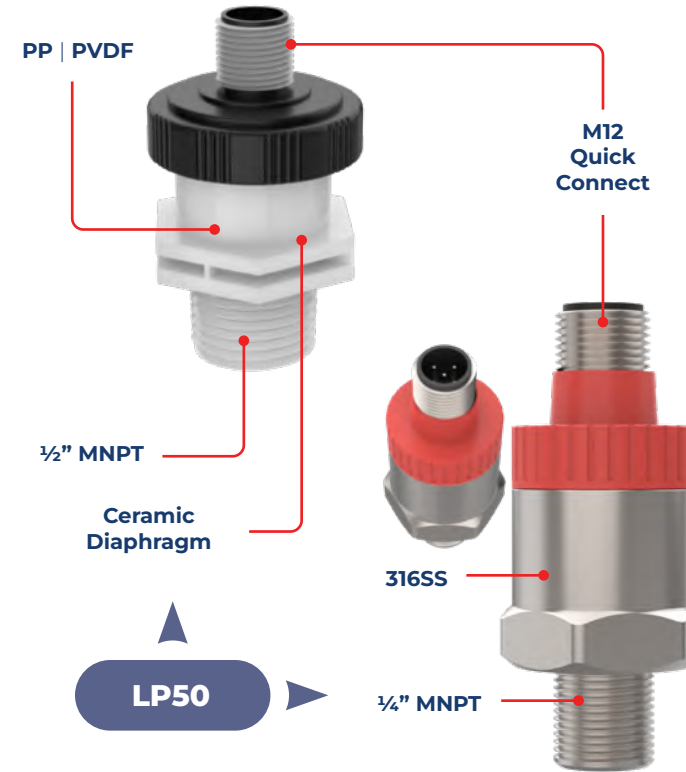
The **LP Series Pressure Transmitters** are designed to measure pressure or level within industry's most demanding corrosive process applications. When measuring pressure, they can be mounted vertically or horizontally, and can easily be installed into a threaded process pipe tee fitting.

The LP Series implements a state of the art ceramic measuring principle that changes the physical pressure (which equates to no more than a few microns), into a linear electronic signal that can be measured. This minimal deformation applies negligible material strain on the ceramic electronic pressure-sensing diaphragm, resulting in high resistance to alternating loads and long-term durability. It's perfect for tough industrial applications.

UMD-4
iconprocon.com
ICON

LP200

UMD-4
iconprocon.com
ICON

Optional UMD-4 Local Display

PP | PVDF | 316SS | RoHS Compliant | CE

BRP Series

truflo®

Back Pressure Relief Valves

GFPP Bonnet

BRP

True Union

¼" – 2" Sizes

PVC | CPVC | PP | PVDF Body

BRP3 (316SS)

GFPP Bonnet

NPT | G Threads

316 SS Body

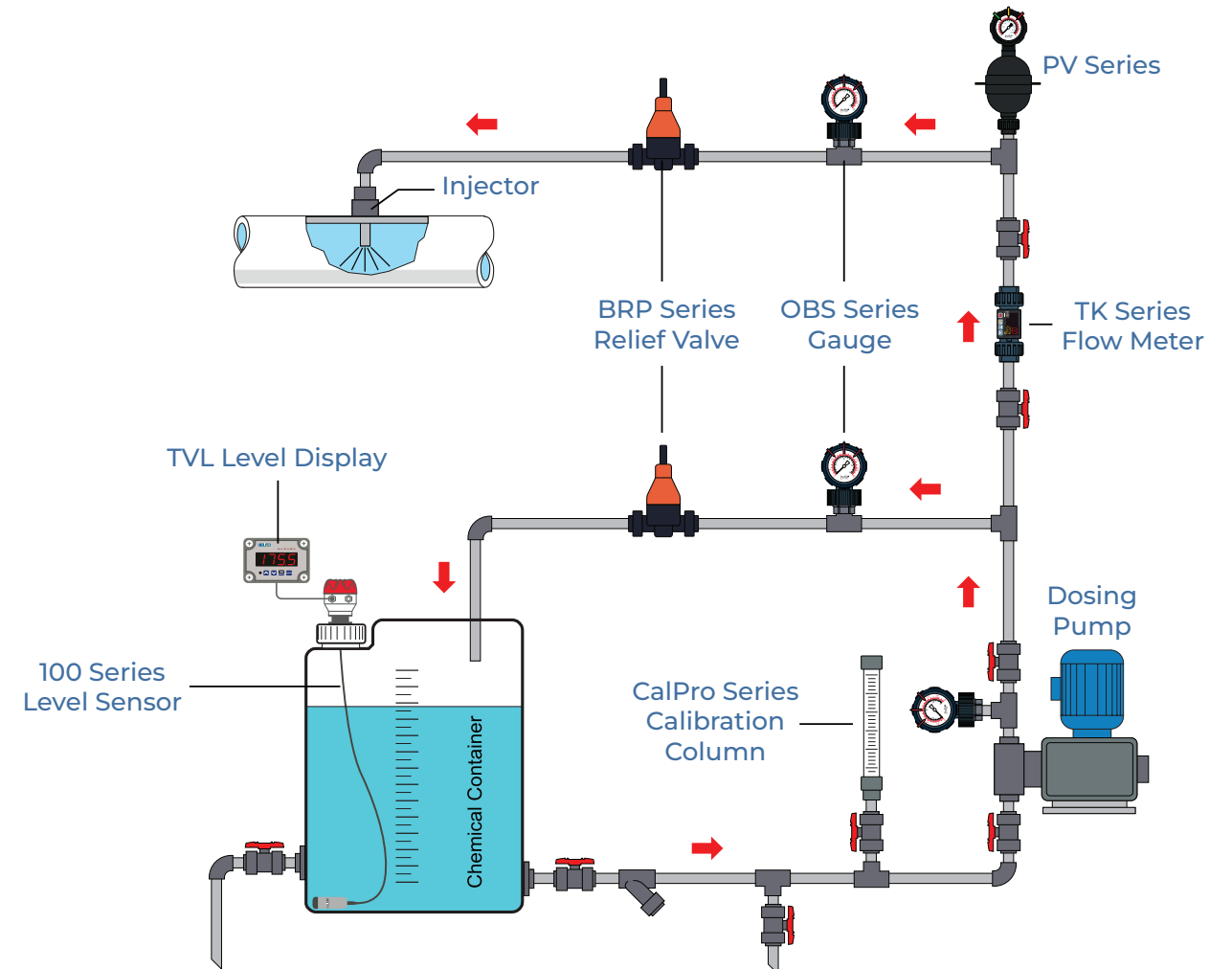PVC | PP | PVDF | 316SS | RoHS Compliant | CE

Back Pressure Relief Valves

- ✓ PTFE Teflon® / EPDM Bonded Diaphragm
- ✓ Glass Filled PP Bonnet
- ✓ PVC | CPVC | PP | PVDF | 316 SS Bodies
- ✓ Field Adjustable 5-150 Psi Range
- ✓ True Union Design
- ✓ Socket or NPT Connections
- ✓ Small Footprint
- ✓ Unaffected by Downstream Pressure

The TruFlo® BRP Series Back Pressure Relief Valve has two functions. As a back pressure valve installed in-line downstream of a pump. In this position the back pressure below the metering pump is maintained.

When the BRP valve is installed in the branch of a tee fitting it functions as a pressure relief valve. The valve remains closed until inlet pressure reaches the preset pressure which is adjusted by turning the spring tensioning bolt. The pressure at the inlet of the valve acts upward against the piston allowing the liquid under higher pressure to flow upwards through the orifice.

Injector

PV Series

BRP Series Relief Valve

OBS Series Gauge

TK Series Flow Meter

TVL Level Display

100 Series Level Sensor

Chemical Container

CalPro Series Calibration Column

Dosing Pump

truflo®
PulsePro® Series

PulsePro® | PulsePro® PV | PulsePro® PF Pulsation Dampeners

- **Reduce Damaging Effects of Water Hammer**
- **Reduces Vibration / Protects Valves / Sensors / Instruments**
- **Easy to Install In-Line Design**
- **Provides Constant Output required for Flow Meters and Pressure Gauges**

PulsePro®

Engineered for accuracy, ruggedness and longevity

- All Plastic design GFPP / CFPVDF / PTFE
- No Pre-Charging Required
- Lightweight with a Small Footprint
- Corrosion Resistant Inside and Outside
- Long Lasting Heavy Duty Diaphragm
- Self-Adapting Technology — Constantly reacting to hydraulic demands
- Up to 90%+ Reduction in Pressure Spikes
- Easy to Size
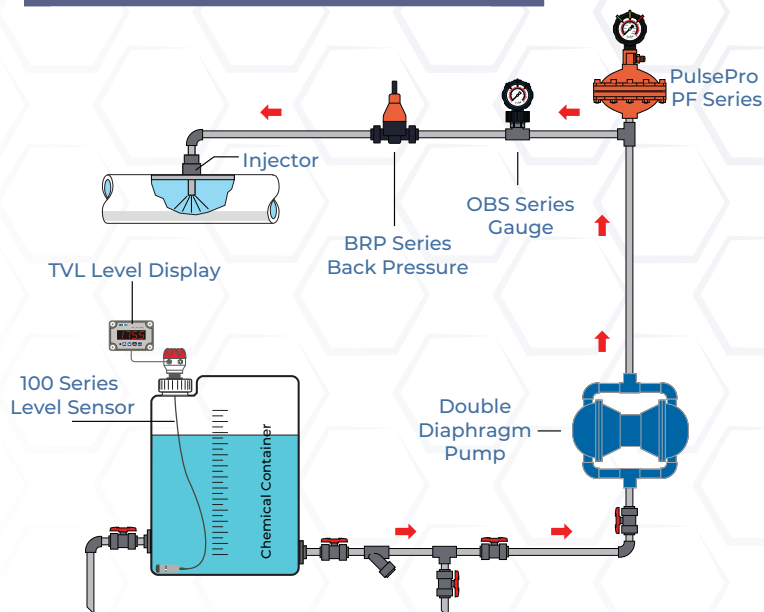- Suitable for Viscous Liquids
- ¾" – 1 ½" Sizes

The new PulsePro® Series Surge Suppressor | Pulsation Dampeners are built tough and designed to operate flawlessly in the most demanding of industrial environments.

PulsePro® offers a new air feed/bleed technology that is self adaptive to the ever changing environment found within a pressurized piping system.
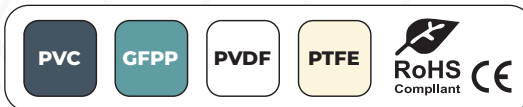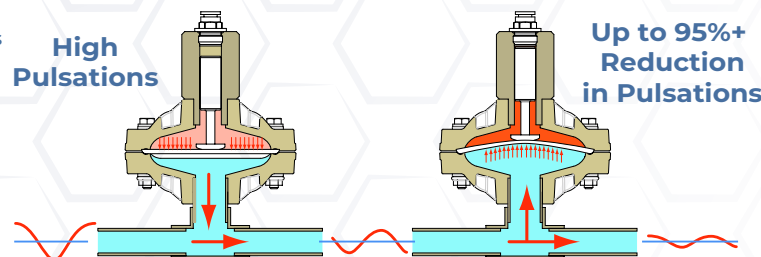
The PulsePro® is designed to minimize the harmful hydraulic shocks caused by volumetric air diaphragm pumps, water hammer, metering/dosing pumps.

The PulsePro® is maintenance free and the active diaphragm-plunger requires no preloading or tuning — the PulsePro responds immediately to dampen any shocks or hammer that may suddenly occur.
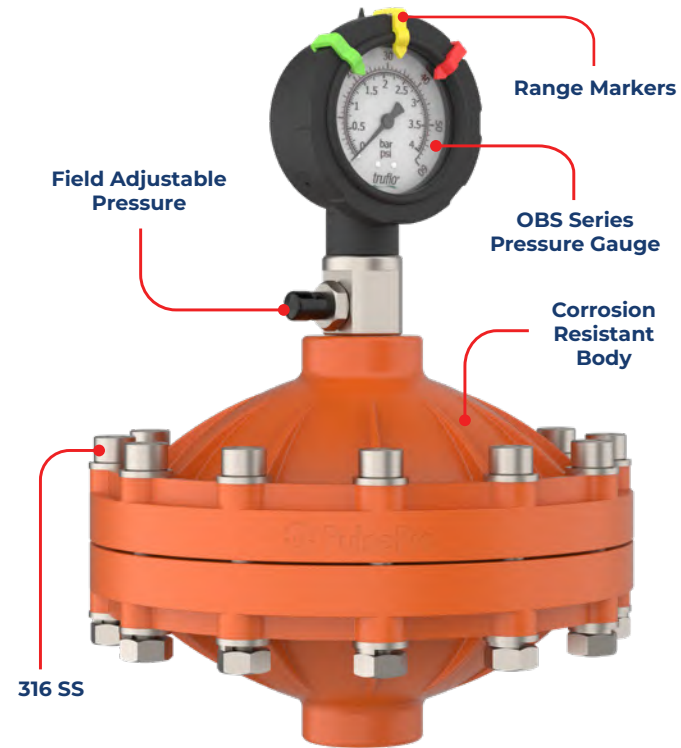
Typical System Schematic

- Injector
- TVL Level Display
- BRP Series Back Pressure
- OBS Series Gauge
- PulsePro PF Series
- 100 Series Level Sensor
- Double Diaphragm Pump
- Chemical Container

Pulse | Surge Compressor

- High Pulsations
- Up to 95%+ Reduction in Pulsations

PulsePro®

| PVC | GFPP | PVDF | PTFE | RoHS Compliant | CE |

PulsePro® Series Pulsation Dampeners

PulsePro® PF

- Field Adjustable Pressure
- Range Markers
- OBS Series Pressure Gauge
- Corrosion Resistant Body
- 316 SS

- Easy to Install
- Lightweight Design | Small Footprint
- PTFE Teflon® Diaphragm
- Suitable for Viscous Liquids
- Up to 95%+ Reduction in Pressure Spikes
- Corrosion Resistant Bodies – GFPP | PVDF
- ½" – 2" Sizes

Equipment protection that can handle the pressure

The PulsePro® PF Series pulsation dampeners are designed to provide protection for process instrumentation, eliminate vibration and provide smooth continuous flow.

Truflo PulsePro® PF Pulsation Dampeners are chargeable and can be adjusted to best suit the process requirements. The PV series can eliminate up to 95% of the pulse caused by positive displacement pumps.

The PulsePro® PF Series pulsation dampeners consist of a flexible PTFE diaphragm and an upper and lower chamber. The upper chamber is pressurized with air or nitrogen.

The PulsePro® PF Series operate on the principle that the volume of air in the upper chamber is inversely proportional to the kinetic pressure of the fluid being pumped.

PulsePro® PV

- Lightweight Design | Small Footprint
- PTFE Teflon® Diaphragm
- Suitable for Viscous Liquids
- ½" – 2" Sizes

- Field Adjustable Pressure
- Range Markers
- OBS Series Pressure Gauge
- Corrosion Resistant PVC Body
- 316 SS
- True Union Design

Equipment protection that can handle the pressure

The PulsePro® PV Series pulsation dampeners are designed to provide protection for process instrumentation, eliminate vibration and provide smooth continuous flow.

Truflo PulsePro® PV Pulsation Dampeners are chargeable and can be adjusted to best suit the process requirements. The PV series can eliminate up to 95% of the pulse caused by positive displacement pumps.

The PulsePro® PV Series pulsation dampeners consist of a flexible PTFE diaphragm and an upper and lower chamber. The upper chamber is pressurized with air or nitrogen.
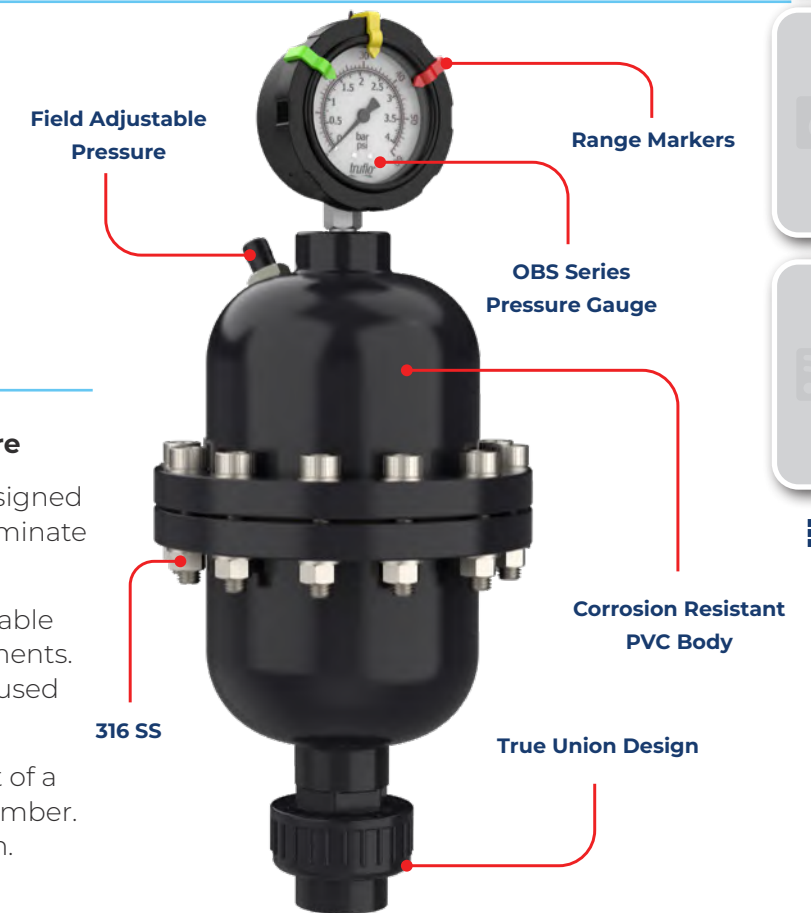
Leak Detection Capacitance Sensor

LevelPro® LDS-YN Industrial Series is an advanced all plastic corrosion resistant leak detection sensor that utilizes ultra-sensitive electrostatic technology which constantly and accurately senses the presence of liquids. These sensors are ideally suited for monitoring the interstitial area between double wall tanks, tank retention dikes, secondary containment sumps, and are where process pumps and valves are utilized. The LDS Series sensor has been engineered to withstand even the most extreme conditions while including features designed to optimize performance and reduce maintenance.

PVC Cable

ProAlert 1000

Red LED Light Indicator

PPT | PTFE Body

LDS-YN

- ⊘ **Adjustable Sensing Range**
- ⊘ **PP Body – PVC Cable**
- ⊘ **Green LED "ON"**
- ⊘ **Red LED "Alarm"**
- ⊘ **NPN / PNP Relay Output**
- ⊘ **Perfect for Interstitial Leak Detection**
- ⊘ **NEMA 4X**

Non Contact Sensing

LFS — All Plastic Flange Spray Shield

ICON™ Corrosion-Free
PROCESS CONTROLS Instrumentation Equipment

PVC	PPT	PTFE	316SS

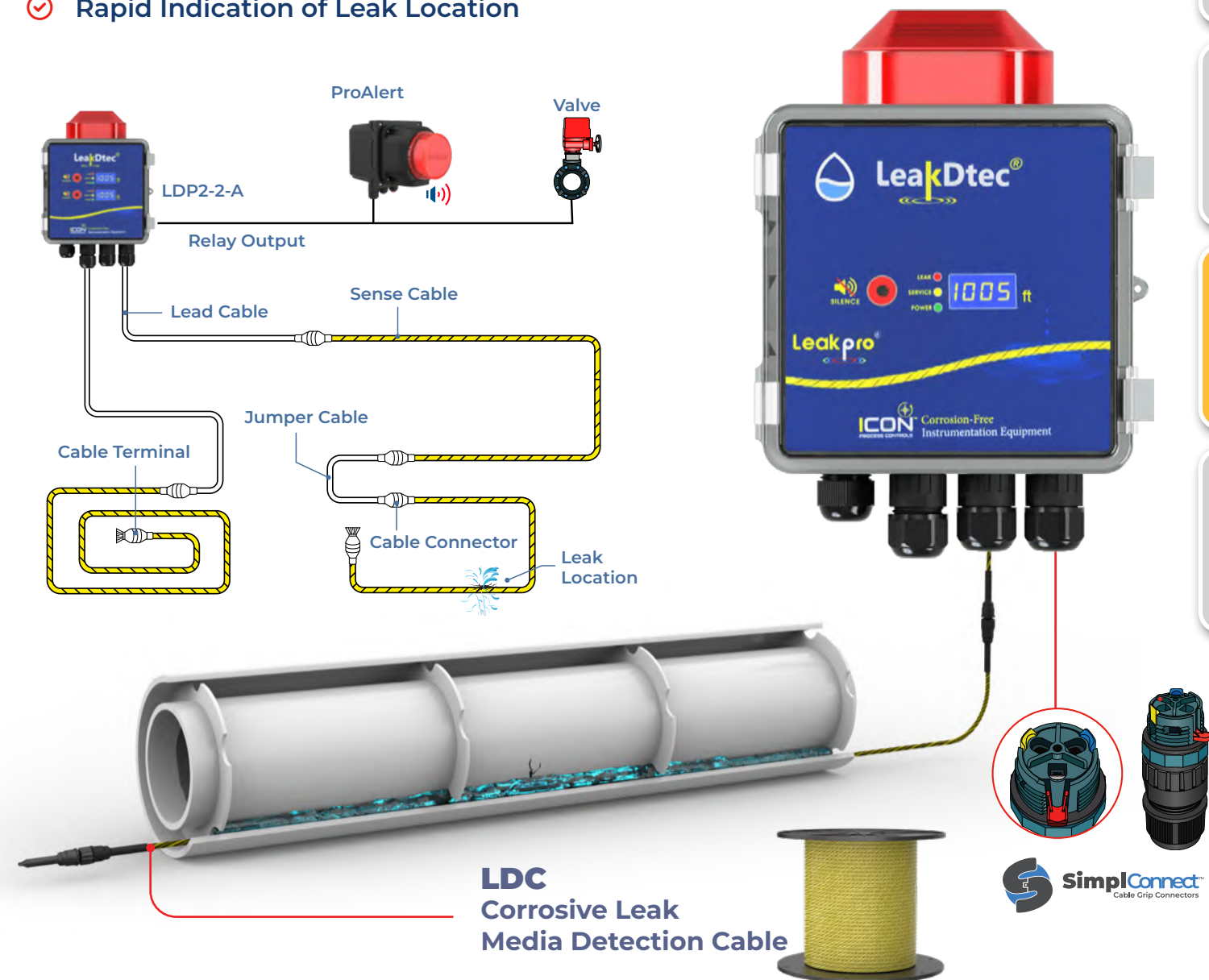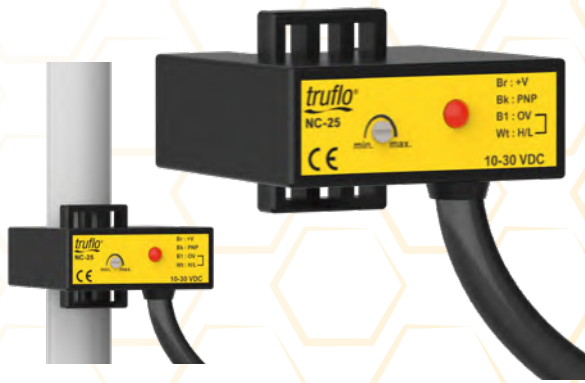RoHS Compliant CE
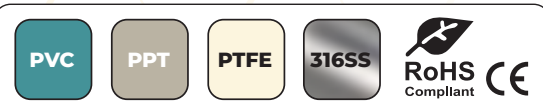
Leak Detection Monitor

The LeakDtec® LDP2 Series liquid alarm module has been designed to provide our customers with a product that offers accurate detection and identification of the location of where the leak has occurred.

The sensitivity adjustment provides fine tuning to the signal coming from the sensor cable.

The LeakDtec® LDP2 monitor offers dedicated RS485 communication output signals ensuring the sensing cable is always being monitored.

- ⊘ **LDP2 monitors up to 4 separate LeakDtec® cable strings**
- ⊘ **7500' Cable Sensing Range**
- ⊘ **3 Amp Relay Output**
- ⊘ **Sensitivity Adjustment**
- ⊘ **NEMA 4X Enclosure**
- ⊘ **RS485 Modbus Communication**
- ⊘ **Locates leaks within ±3ft of source**
- ⊘ **Remote Monitoring to PLC**
- ⊘ **Rapid Indication of Leak Location**

ProAlert

Valve

LDP2-2-A

Relay Output

Lead Cable

Sense Cable

Jumper Cable

Cable Terminal

Cable Connector

Leak Location

LeakDtec®

ICON® Corrosion-Free
INDUSTRIAL CONTROLS Instrumentation Equipment

**LDC
Corrosive Leak
Media Detection Cable**

SimplConnect™
Cable Grip Connectors

NC Series

LevelPro

Liquid Level | Leak Detection | Switches

NC 15 | NC 25

- Non-Intrusive
- All Plastic Design
- High Accuracy
- Sensitivity Adjustment
- Perfect for Dosing or Metering Photoelectric or Capacitive Technology LED Light - Visual Indication of Presence of Liquid

NC 30

- Non-intrusive Liquid Level Detection through Plastic or Fiberglass Walls
- Simple Relay Setting
- M12 Quick Connect/Disconnect
- Measure up to 2" Pipe Diameter (Sch 80)
- Senses up to 0.3" | 8mm Wall Thickness

### NC 30Y

- Capacitive Sensing | No Moving Parts
- Perfect for Aggressive | Conductive Liquids
- All Plastic Design | Excellent Chemical Resistance
- LED Display Status

Lotorq LT Series

truflo®
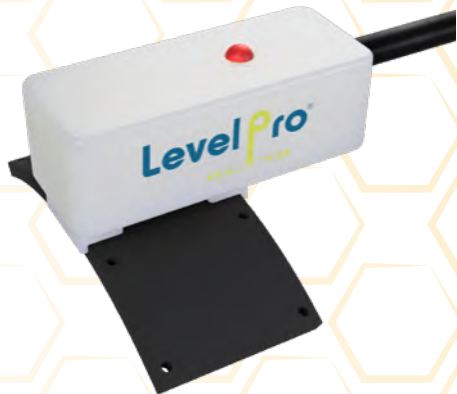
EPDM | Teflon® Flange Gaskets

- Bolt Torque Reduced by Up to 75%
- Double Raised O-Ring Design
- Raised Tab – No Pinched Fingers
- Perfect for Plastic Piping Systems
- Excellent Chemical Resistance

LeakPro® LDC | LDS-R
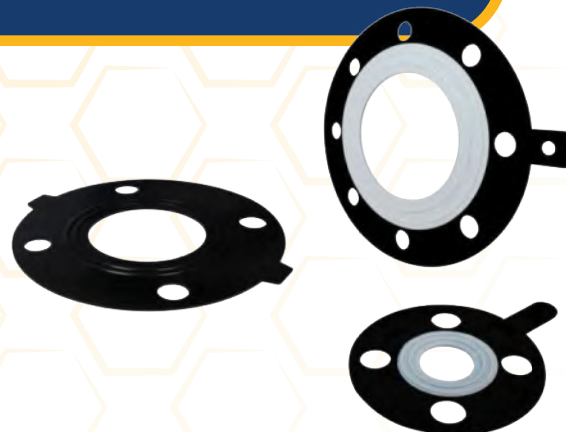
Leak Detection Cable

LDC — Corrosive Leak Media Detection Cable

- Acids + Alkali Resistant
- Four (4) Core Distance Detect
- Polyethylene Jacketed
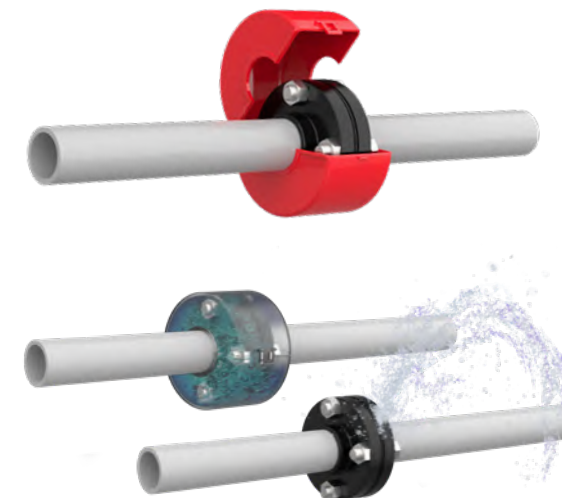- High Tensile Pull Strength
- Compatible with LDP Module

LDS-R — Leak Detection Cable

- Capacitive Fail-Safe Operation
- Perfect for Aggressive and Electrically Conductive Corrosive Chemicals
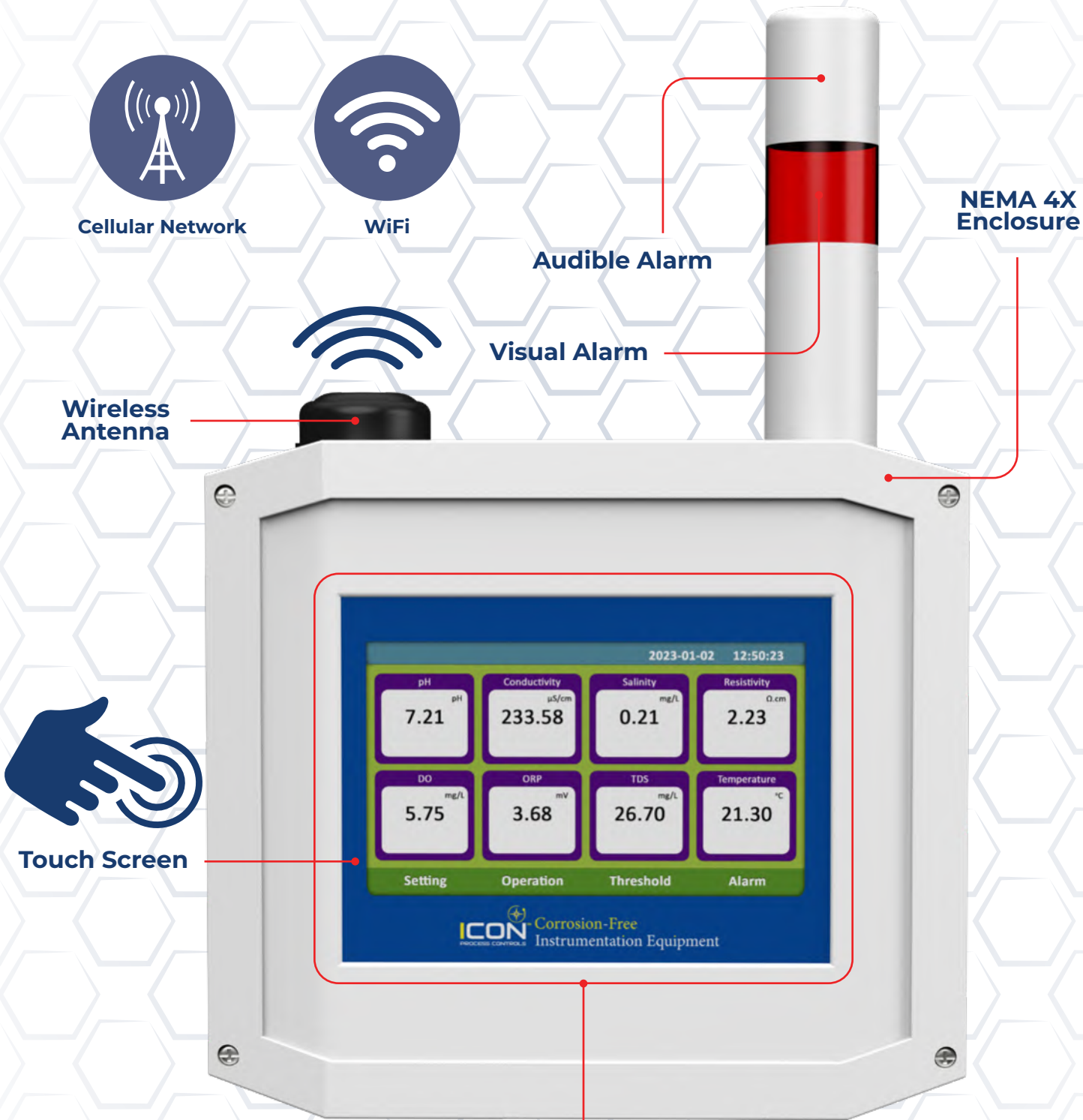- Containment Dikes | Double Wall Tanks

LFS — All Plastic Flange Spray Shields

- PP Solid Construction ½"-8"
- Reusable
- Quick Installation
- 360° Directional Discharge Port (Optional)

IZON® MCC-16

Universal Multi-channel Controller

Cellular Network

WiFi

Audible Alarm

NEMA 4X Enclosure

Visual Alarm

Wireless Antenna

Touch Screen

2023-01-02 12:50:23

pH	Conductivity	Salinity	Resistivity
pH	µS/cm	mg/l	Ω.cm
7.21	233.58	0.21	2.23

DO	ORP	TDS	Temperature
mg/l	mV	mg/l	°C
5.75	3.68	26.70	21.30

Setting   Operation   Threshold   Alarm

ICON PROCESS CONTROLS — Corrosion-Free Instrumentation Equipment

Simultaneous Multi-Channel Functionality (x16)

Flow • Pressure • Level • pH • ORP • Conductivity • TDS
Resistivity • Salinity • Dissolved Oxygen • Turbidity
Free Chlorine • NO3 • Temperature

Multi-Channel Controller

The Ultimate High Performance Wireless Telemetry Controller

This controller offers brilliant display quality and high power visualization. The touchscreen is both easy to navigate as well as being user friendly.

The price-performance ratio and versatility of being able to monitor eight distinct sensors at the same time makes it an excellent investment.

The MCC-16 can be integrated into higher-level networks, to meet the ever-increasing demands for transparency and data provision.
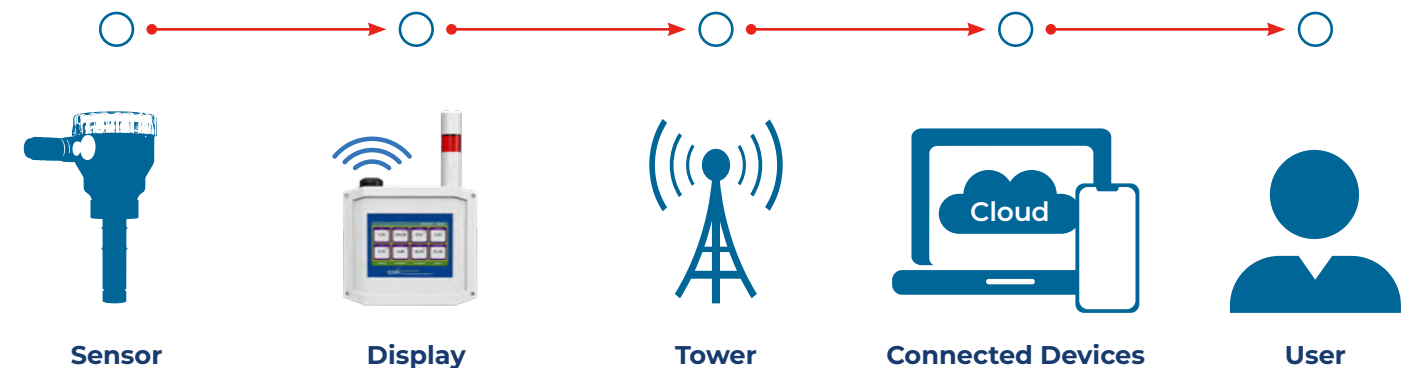
MCC-16 Wireless Universal Industrial Controller

- ⊘ Up to sixteen (16) Discrete Channel Inputs
- ⊘ Data recording / curve display / data upload function
- ⊘ 4-20mA & RS485 multiple output modes
- ⊘ Local or Cloud Based
- ⊘ WiFi
- ⊘ Cellular
- ⊘ 7" Color Touch Screen
- ⊘ Bright Visual Alarm
- ⊘ Password protection

M12 Connections

Circular diagram categories:
- pH, Conductivity, ORP, Pressure
- Dissolved Oxygen, TDS, Salinity
- Suspended Solid, Temperature
- Leak Detection
- Flow Velocity
- Valve Position
- Level Measurement
- Ammonium Turbidity

How It Works

Sensor → **Display** → **Tower** → **Connected Devices** → **User**

Cloud

LRT Series

LoRa — Long Range Wireless Transmitter

- LoRa wireless provides a stable data stream
- High output RF power provides a transmission distance of 10mi+ (16km) line of site or 2mi+ (3km) industrial environment
- Multi-interface support RS-485 / 4-20mA or digital input / digital output
- Programmable data transfer intervals
- Monitor up to 5 sensors with one gateway
- Robust outdoor construction (IP68, NEMA 4X)
- Analog input (4-20mA)
- Modbus command for Analog Input / Digital Input / Digital Output / DC Output
- Digital output support PWM / Latch Mode
- AUX I/O support remote setup / status inquiry function
- AES 128 / 256 security encryption

IZON LRT-4000 LoRa Gateway (single channel)

M12 Quick Connect / Disconnect

IP68 / NEMA 4X Enclosure

Corrosion Resistant Housing

IZON LRT-4500 LoRa Gateway (5 channel)

Save Time, Money and Resources by Monitoring Remotely

LoRa is a **Low-Power** and **Long-Range** transmission protocol with anti-interference performance.

4 – 20mA or RS-485 MODBUS RTU's industrial interfaces are available that allow for connection to existing industrial control host (ex. PLC).
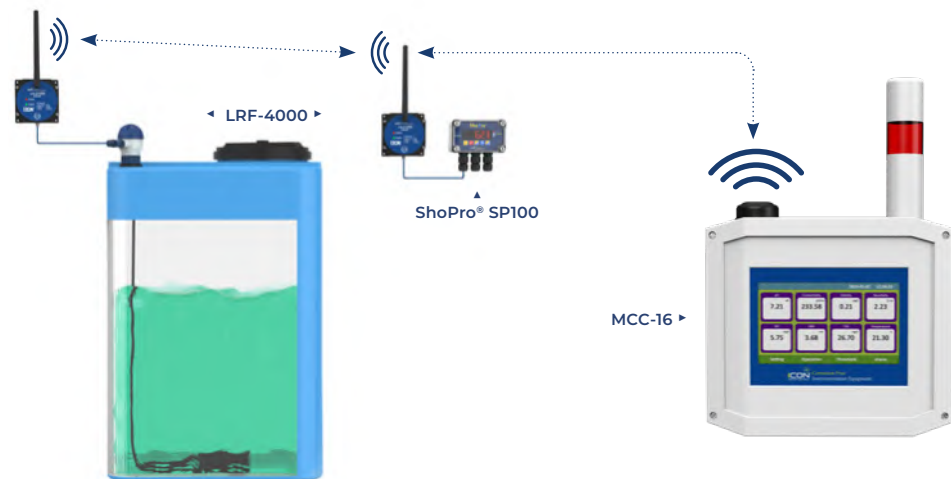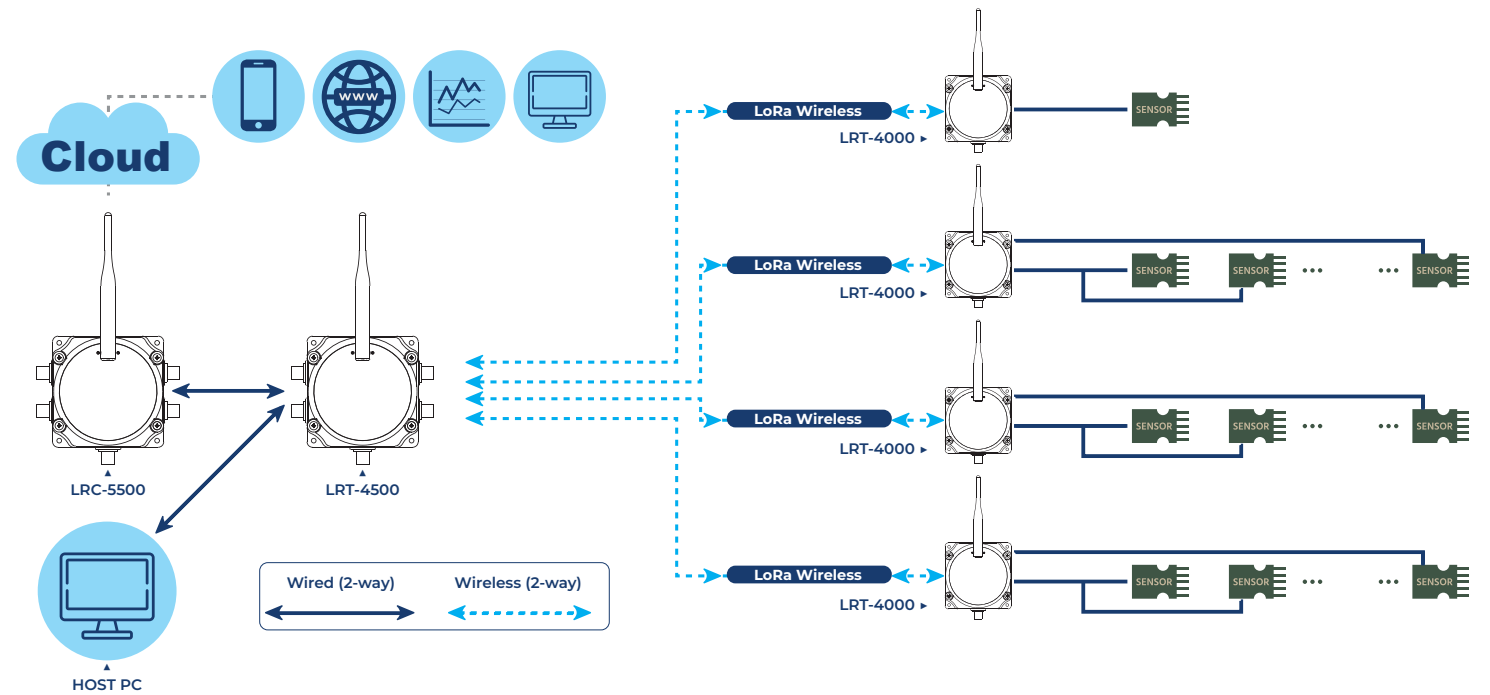
Experience easy setup and installation, and anytime, anywhere operation and monitoring with IZON Wireless Gateways.

Keep your eyes on everything remotely.

How It Works

Optional Solar Battery

Cloud

LoRa Wireless Internet / Intranet

Cloud

LoRa Wireless — LRT-4000 ▸ — SENSOR

LoRa Wireless — LRT-4000 ▸ — SENSOR SENSOR ... ... SENSOR

LoRa Wireless — LRT-4000 ▸ — SENSOR SENSOR ... ... SENSOR

LoRa Wireless — LRT-4000 ▸ — SENSOR SENSOR ... ... SENSOR

LRC-5500   LRT-4500

Wired (2-way)   Wireless (2-way)

HOST PC

LRF-4000 ▸

ShoPro® SP100

MCC-16 ▸

Wire you still running expensive cable?

LRC-5500 (NB-IoT)

Cloud

LRT-4500 (LoRa)

2-Way communication
Wired
Wireless

IZON LRC Series — NB-IoT

NB-Iot — Long Range Cellular Transmitter

LRC-6500 Wireless Gateway

- ✓ NB-IoT wireless provides a stable data stream
- ✓ Wide voltage operation for industrial applications
- ✓ Multi-interface support RS-485 / 4-20mA or digital input / digital output
- ✓ Programmable data transfer intervals
- ✓ Robust outdoor construction (IP68, NEMA 4X)
- ✓ Analog input (4-20mA)
- ✓ Digital output support PWM / Latch Mode
- ✓ Redundant battery inside. (LRC-6500B)

LRC-5500 Wireless Sensor Node

- ✓ NB-IoT wireless provides a stable data stream
- ✓ Operating Bands: Band 1 / Band 3 / Band 5 / Band 8 / Band 20 / Band 28
- ✓ Internet Protocol TCP / UDP / MQTT / MQTTS / Line Notify
- ✓ 4 Sensors-Interface Support Analog or Digital Input / Analog or Digital Output / RTD / Frequency Count / Pulse Count
- ✓ Multi-type Interface for Sensor
- ✓ Data Logger With SD Card
- ✓ AES 128 / 256 Security Encryption
- ✓ GNSS / GPS Receiver
- ✓ More Energy Efficient / Longer Standby Time
- ✓ Solar Charger Management
- ✓ Redundant Battery Inside
- ✓ Wide Voltage Operation for Industrial Applications
- ✓ Robust Outdoor Construction (IP68, NEMA 4X)

IZON Sensor Node series for remote or mobile monitoring / data collection and control.
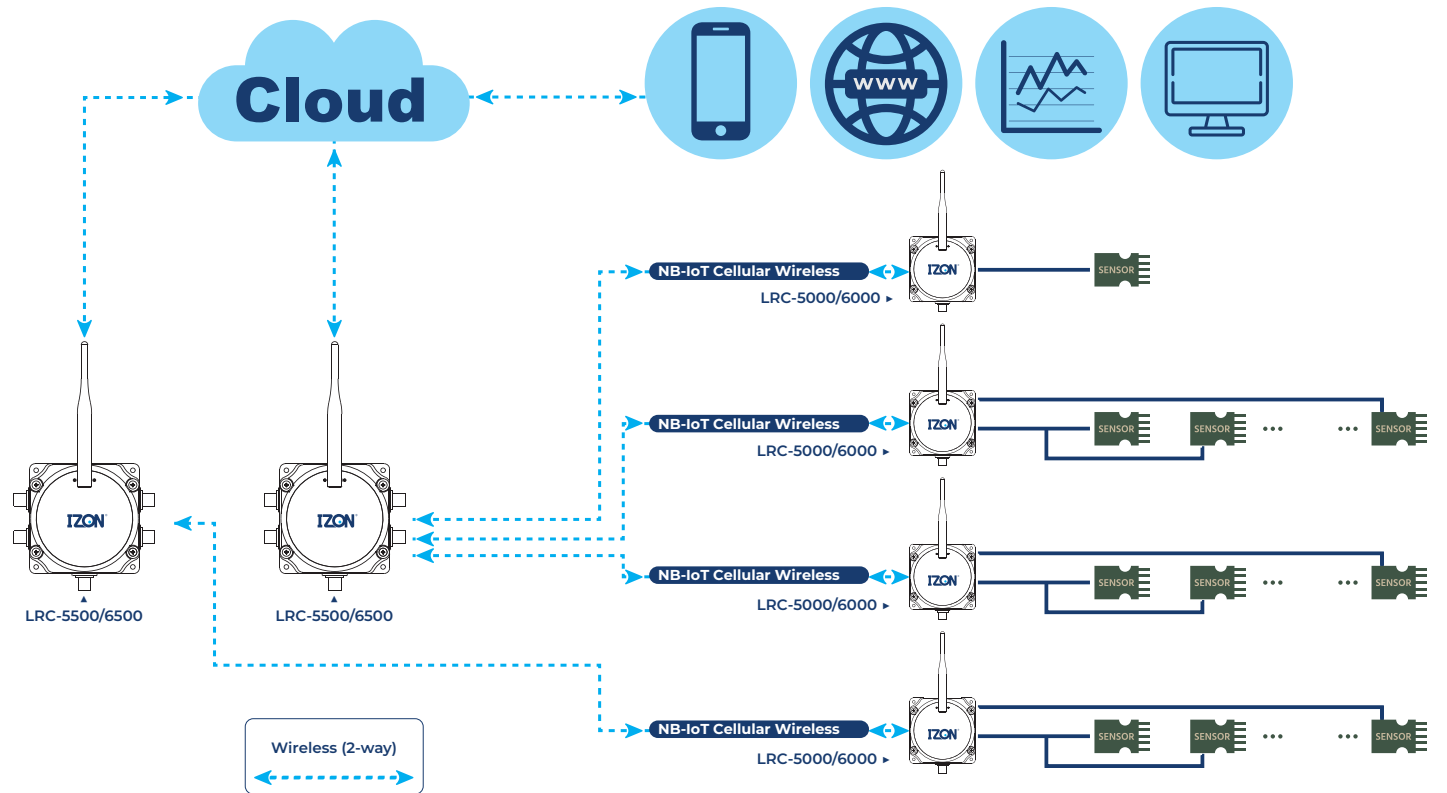
The LRC Series can be connected to analog sensors / thermometers / flow meters / level sensors / digital sensors / modbus sensors, and also provides analog / digital control contacts and GPS positioning functions. Additionally, it includes sensor data collection and upload to cloud / server and sensor data logger functions. Secure you data with AES encryption.

IZON LRC-6000 NB-IoT Gateway (single channel)

IZON LRC-6500 NB-IoT Gateway (5 channel)

IZON LRC-5000 NB-IoT Wireless Sensor Node (single channel)

IZON LRC-5500 NB-IoT Wireless Sensor Node (5 channel)

How It Works

Sensor — Gateway Transmitter — Gateway Receiver — Connected Devices — User

Optional Solar Battery

NB-IoT Wireless Internet

Cloud

Wireless (2-way)

LRC-5500/6500

NB-IoT Cellular Wireless
LRC-5000/6000

LRC-6500 (NB-IoT)

Cloud

2-Way communication
Wired
Wireless

IZON® S-10000B | S-25000B

LG Solar Lithium-Ion Battery Pack

S-10000B
(10,000mAh)

S-25000B
(25,000mAh)
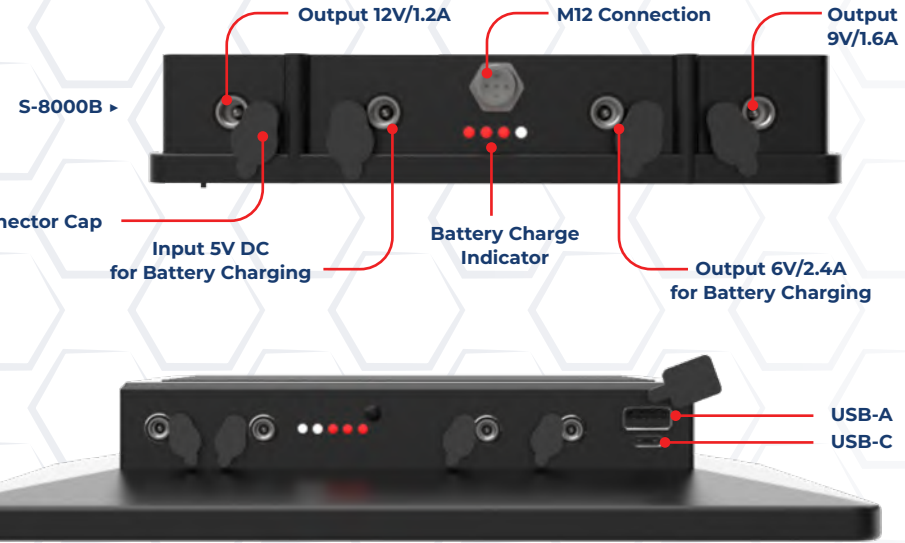
- ✓ High Capacity Rechargeable Li-ion Battery
- ✓ 10,000mAh/25,000mAh Energy Charge
- ✓ Up to 48 days of Power to Sensor
- ✓ NEMA 6 Enclosure
- ✓ Superior Monocrystalline Silicon Panel Cells
- ✓ Lightning-resistant Circuity Protection
- ✓ Rapid Charging
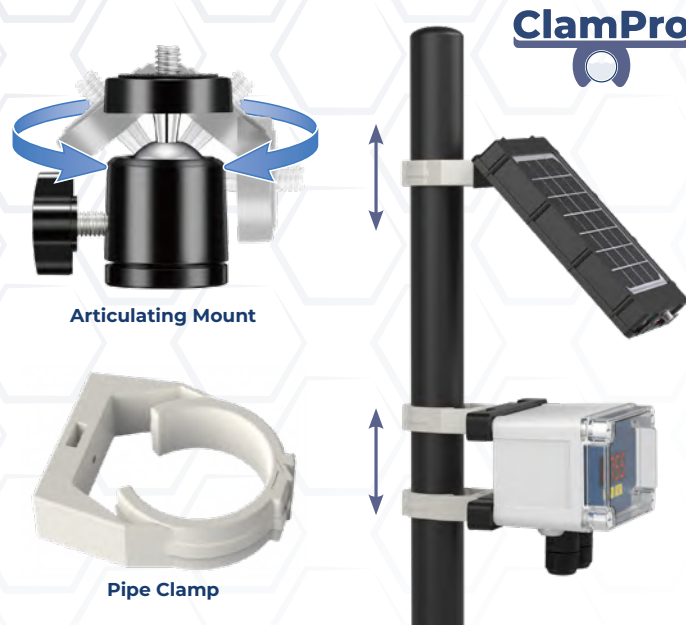- ✓ No internal Wiring required
- ✓ Wall Mount | Pipe Mount

Output 12V/1.2A   M12 Connection   Output 9V/1.6A

S-8000B ▸

Connector Cap

Input 5V DC for Battery Charging   Battery Charge Indicator   Output 6V/2.4A for Battery Charging

USB-A
USB-C

S-25000B ▸

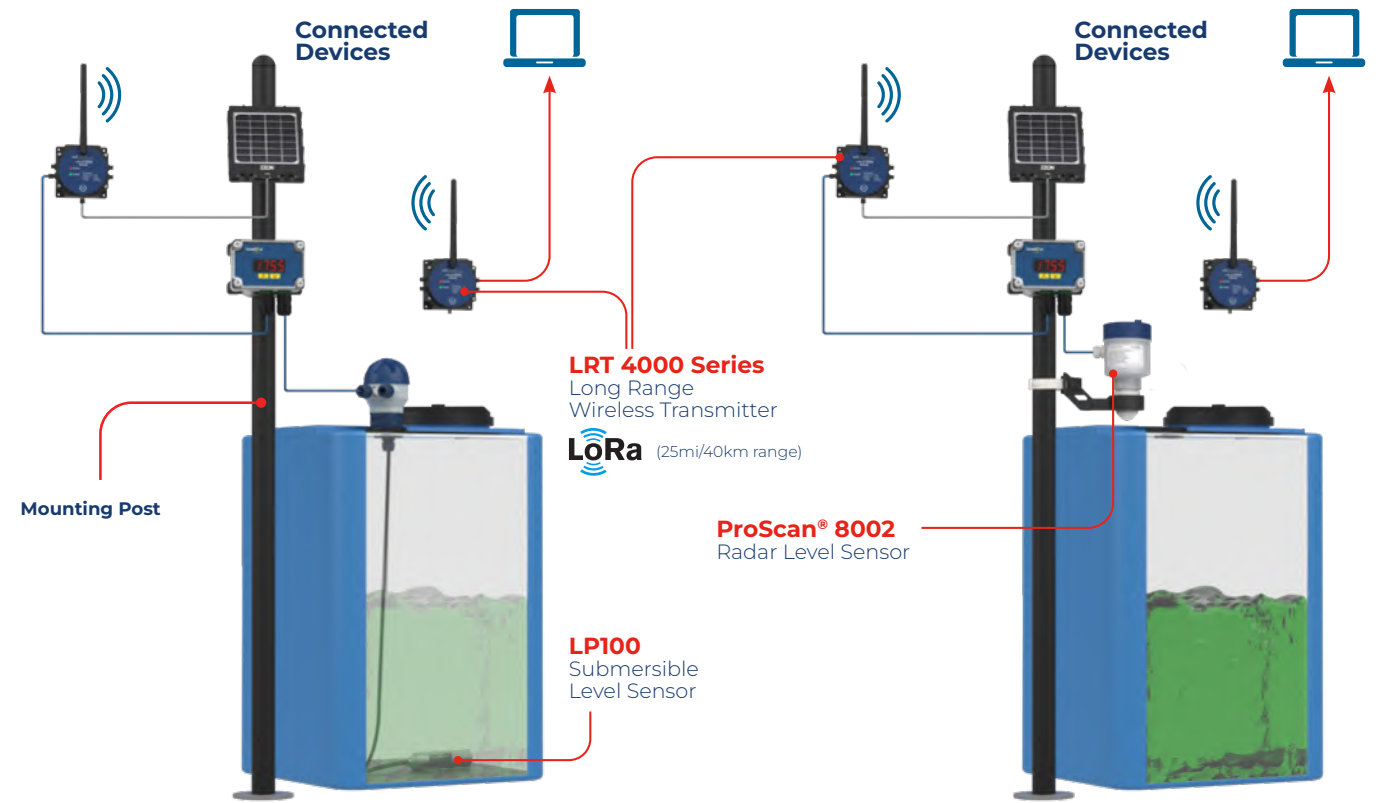## Power up under the sun with our Solar Battery Pack!

Never run out of power again with our S-10000B/S-25000B industrial series solar-powered battery power bank. Harness the sun's energy to keep your devices charged and enjoy the freedom of sustainable energy wherever your tanks are located.

ClamPro®

Articulating Mount

Pipe Clamp

ICON PROCESS CONTROLS™ Corrosion-Free Instrumentation Equipment

Typical Applications

Connected Devices   Connected Devices

LRT 4000 Series
Long Range Wireless Transmitter
LoRa (25mi/40km range)

Mounting Post

ProScan® 8002
Radar Level Sensor

LP100
Submersible Level Sensor

Use it anywhere you need DC power outdoors

Flow Meters   Level Sensors

Level Displays

pH/ORP/Conductivity Sensors   Analytical Controllers   Wireless Transmitters   Leak Detection

LevelPro

ProAlert® 2 Series

Industrial Visual | Audible Sentry Alarm

ProAlert®

The Next Big Thing in Liquid Monitoring

- Flow
- Liquid Level
- Analytical
- Pressure
- Leak Detection

All Plastic NEMA 4X Enclosure

Built in Visual Alarm
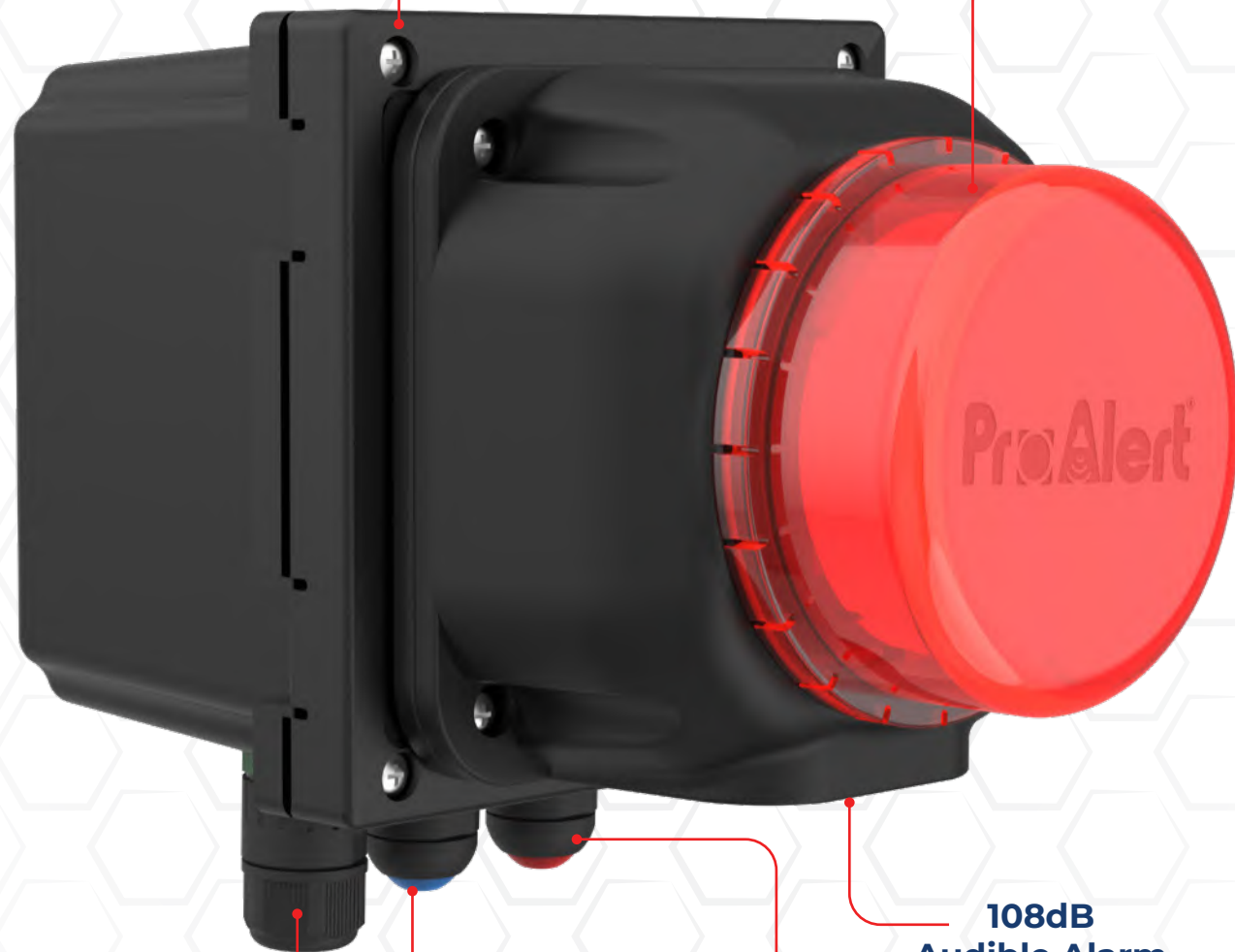
108dB Audible Alarm

Alarm Test

Latching Audio Alarm Silence Switch

SimplConnect™ Cable Grip Connectors

ICON PROCESS CONTROLS — Corrosion-Free Instrumentation Equipment

ABS | PC | RoHS Compliant | CE

Features

- ✓ High Intensity Red Alarm Light
- ✓ Pulse to Relay Output
- ✓ Super Loud 108dB Audible Alarm
- ✓ Silence Function | Light Remains On
- ✓ Rugged NEMA 4X Industrial Enclosure
- ✓ External Wall Mounting Brackets
- ✓ High Impact Plastic Polycarbonate Shell
- ✓ Includes 6' Power Cord + Watertight Cord
- ✓ Completely Pre-Wired
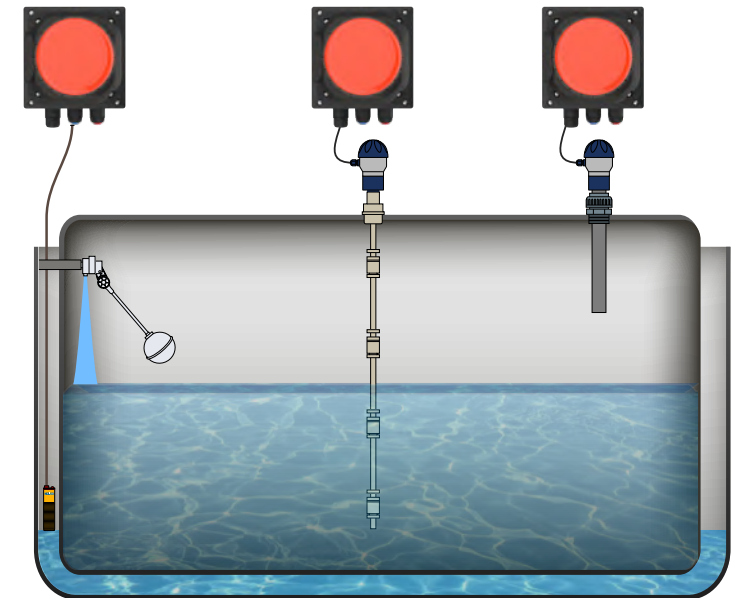- ✓ Extra Output Contact to Remote Alarm or PLC
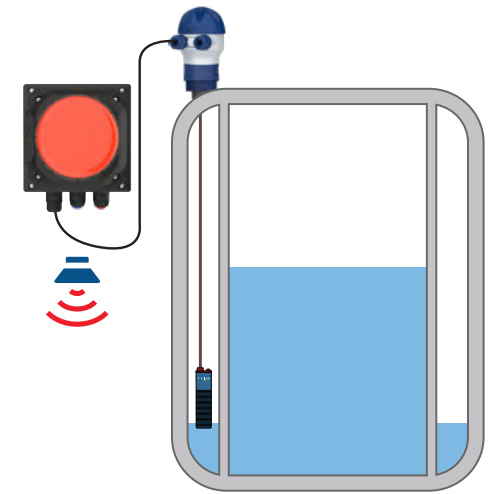
Typical Applications

- ✓ High | Low Level Indication for Tanks | Sumps
- ✓ Flow | No Flow Sensors | Pump Protection
- ✓ Bag | Filter Change Out
- ✓ Leak Detection
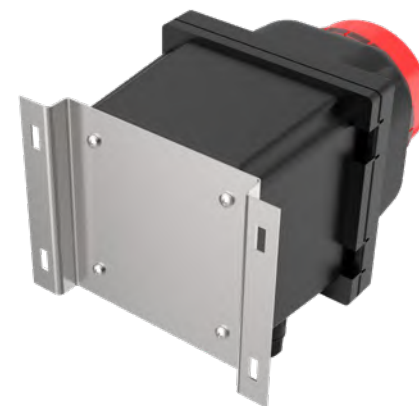- ✓ Upset Condition Notification

Specifications

- ✓ Dimensions | 7" X 5" X 4.5"
- ✓ Enclosure | NEMA 4X
- ✓ Weight | 2.1 lbs.
- ✓ 24VDC
- ✓ 100 - 240VAC *(with DC adapter)*

NOTE: The ProAlert® PA223 can be used in more than just leak detection applications. It is an excellent high/low level alarm or any other upset condition.

3 Easy Mounting Options

Wall Mount

Panel Mount

Pole/Pipe Mount

LevelPro
650 | 4000 | 7200 | 8000

Universal Data Loggers | Displays | Controllers

ITC-650 Data Logger

- ⊘ Universal Multi-channel Indicator
- ⊘ Up to 8 inputs Universal 4-20 mA
- ⊘ 2 Electronic Relay Outputs
- ⊘ 24VDC Power Supply
- ⊘ Output: 24V DC / 200 mA
- ⊘ Temperature, Flow, Humidity, Pressure, PH, Redox, Level, Current
- ⊘ Password Protected

The LevelPro ITC 650 Universal Data Logger can display current and record values from 8 different measuring channels. Each channel can be individually designated (described) with any engineering measuring unit. The LCD graphical display allows for visualization of the values from all 8 channels simultaneously. A significant advantage is possibility of viewing the trends in each measuring channel.

ITC 4000 Data Logger + Display + Controller

- ⊘ Deceleration of Relay Outputs
- ⊘ Analog Output 4-20mA + 2 Relays
- ⊘ 4 Universal Inputs
- ⊘ NEMA 4X Enclosure
- ⊘ Cable Grips Included

ITC-7200 Series

- ⊘ Universal Multi-channel Indicator
- ⊘ Up to 48 inputs. Universal 4-20 mA
- ⊘ Temperature, Flow, Humidity, Pressure, PH, Redox, Level, Current
- ⊘ Viewing the Trends in each of the Measuring Channels
- ⊘ Password Protected

ITC-7200

ICON PROCESS CONTROLS — Corrosion-Free Instrumentation Equipment

ITC 8000 Series

- ⊘ Universal Multi-channel Indicator
- ⊘ Up to 72 inputs. Universal 4-20 mA
- ⊘ Temperature, Flow, Humidity, Pressure, PH, Redox, Level, Current
- ⊘ Trending | Mapping in each of the Measuring Channels
- ⊘ Color LCD Touchscreen
  (also compatible with traditional keyboard and a USB mouse)
- ⊘ NEMA 4X | IP65 Front Panel Protection
- ⊘ Password Protected
- ⊘ Up to 15GB Data Storage

**Available NEMA 4X Enclosure**

ITC-8000

Use Java applets

It is possible to create your own website or use one of the templates included in the ITC series.

Applications such as tank level with bar graphs, flow meters indicating flow speed or total liquid flow, a pressure gauge indicating process pressure — all are possible with the ITC series This solution makes monitoring of the entire system much more transparent and simple to use.

DAQ Manager

To manage large amounts of data we have designed a software package that is free of charge. The software converts the data into easy viewing graphs and tables, and can provide group measurement results, create reports and export data into other files. Its fully functional free version can be downloaded from our website.

Measure | Recalculate | Control and Display
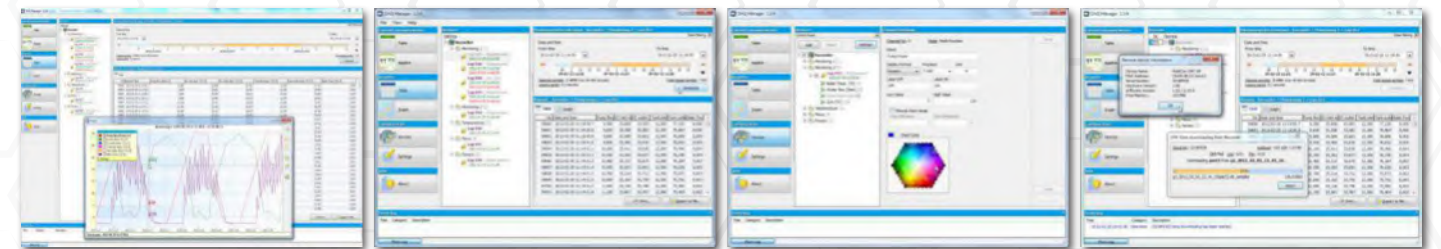
Calculate the data according to your own requirements; one result can be used as an argument of another action. An example, current measurement from 8 channels and voltage from 8 channels cross checked against the total power from 8 items being measured. All data can be visualized in a range of ways: as numerical values, quasi-analog indicators, phasor charts, horizontal or vertical charts, horizontal or vertical bars.
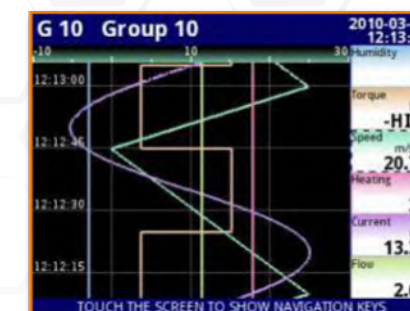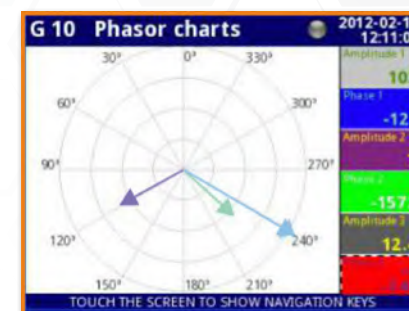
Corrosion-Free
Instrumentation Equipment

ICON
PROCESS CONTROLS

Order from: **C A Briggs Company**
622 Mary Street; Suite 101; Warminster, PA 18974
Phone: 267-673-8117 - Fax: 267-673-8118
Sales@cabriggs.com - www.cabriggs.com

Accelerating Innovation ⊕ **iconprocon.com**