ICON™ PROCESS CONTROLS

Corrosion-Free
Instrumentation Equipment

2023
Product Catalogue

Flow

Liquid Level

Analytical

Pressure

Leak Detection

Wireless Solutions

Accelerating Innovation ✦ iconprocon.com

Contents:

ICON™ PROCESS CONTROLS — Corrosion-Free Instrumentation Equipment

TK Series

In-Line Plastic Paddle Wheel Flow Meter

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

GUARANTEE LIFETIME WARRANTY

M12 Quick Disconnect

Rotates 360°

Icon Process Controls

Bright LED Display

Flow Rate and Total

True Union Design

ICON PROCESS CONTROLS
Corrosion-Free Instrumentation Equipment

PVC | PP | PVDF | RoHS Compliant | CE

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 a 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	Blind Pulse	4–20mA	Battery + Pulse
TKB	TKS	TKP	TKM	TKW	TCB

truflo®
TK3 Series

In-Line Stainless Steel Paddle Wheel Flow Meter

- ☑ Industry's Highest Accuracy: +/- 0.5%
- ☑ Life-Time Warranty on Paddle Assembly
- ☑ No Programming

GUARANTEE LIFETIME WARRANTY

M12 Quick Disconnect

Rotates 360°

Icon Process Controls

truflo®

TKM-■■

SET OP2 TFM OP1 GPM GAL GPM F

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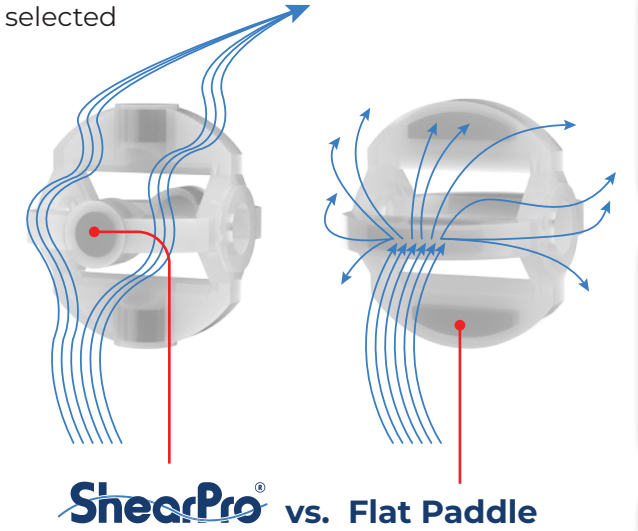
High performance Tefzel® and Zirconium materials have been selected due to their excellent chemical and wear resistant properties.

- ☑ 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*
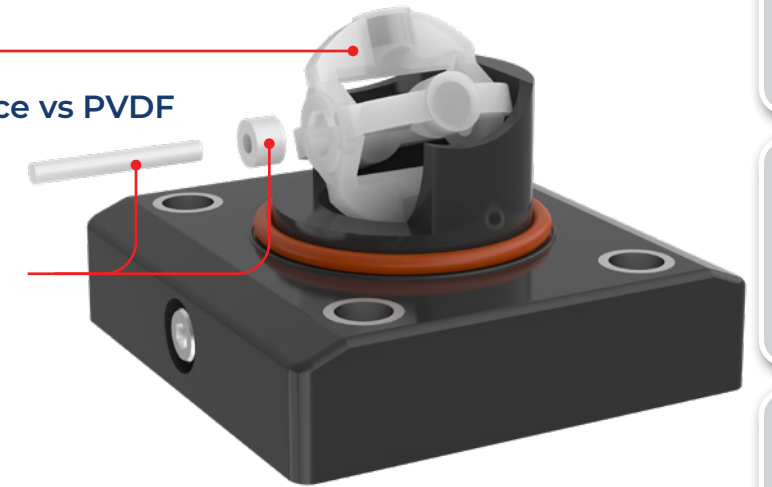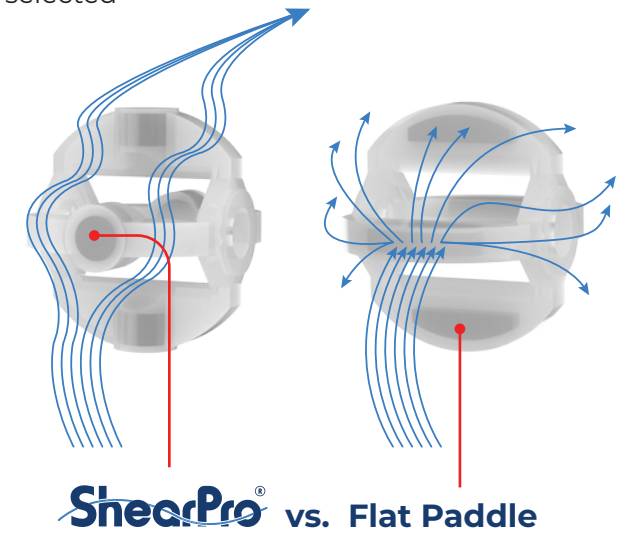
  *Ref: NASA "Shape Effects on Drag"

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	4–20mA	Blind Pulse + 4–20mA	H₂O
TK3B	TK3S	TK3P	TK3M	TK3W	TC3B

truflo®

TI Series

Insertion Plastic Paddle Wheel Flow Meter

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

GUARANTEE · **LIFETIME WARRANTY**

Flow Rate and Total

Bright LED Display

Rotates 330°

M12 Quick Connect

True Union Design

NPT Connection

PVC | PP | PVDF

PT | PPT | PFT — Tee Fittings

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 a 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
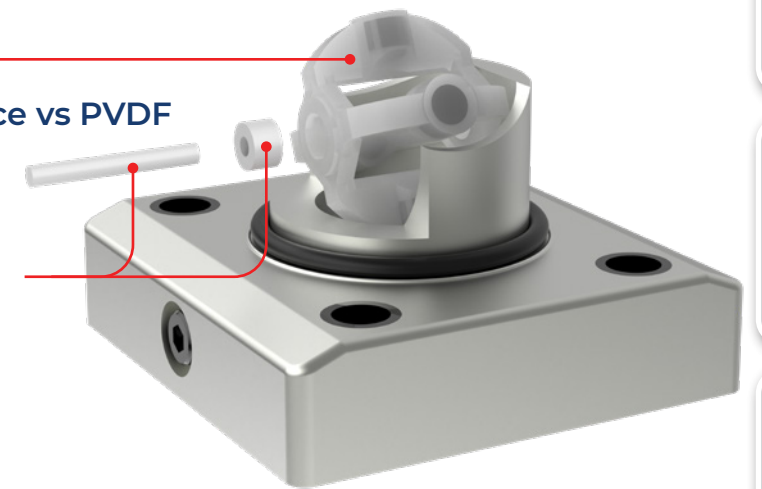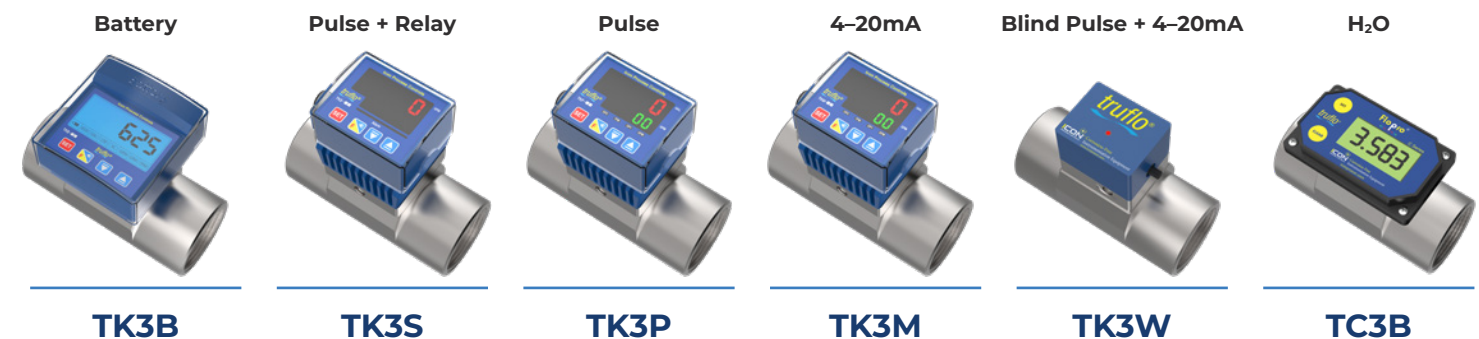- Pulse | 4 – 20mA | RS485 | Voltage Outputs

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)	Flow & Total (4-20mA)	Flow Rate (4-20mA + Relay)	Flow, Total & Batching (4-20mA + Relay)
TIB	TIP	TIM	TIR	TIF

TI3 Series

truflo®

Insertion Stainless Steel Paddle Wheel Flow Meter

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

GUARANTEE — LIFETIME WARRANTY

Flow Rate and Total

Bright LED Display

Rotates 330°

M12 Quick Connect

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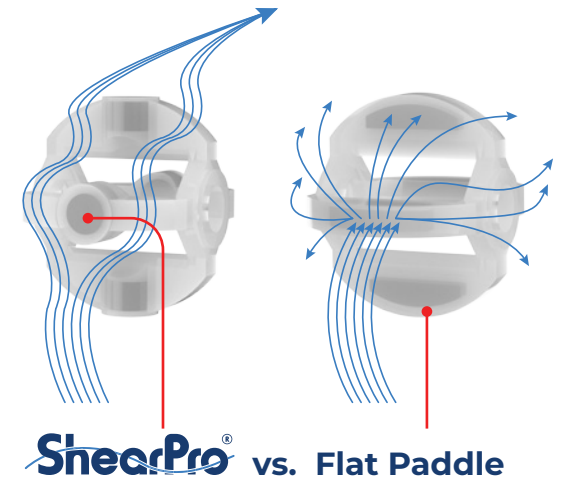
High performance Tefzel® and Zirconium materials have been selected due to their excellent chemical and wear resistant properties.

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

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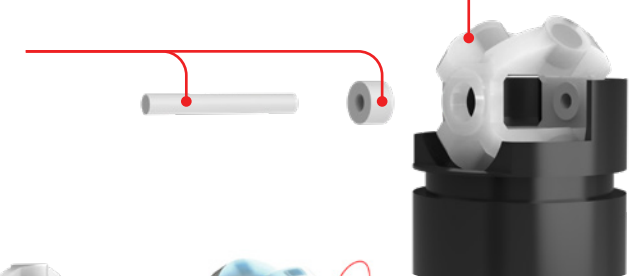- 78% Less Drag than Old Flat Paddle Design*
  *Ref: NASA "Shape Effects on Drag"

ShearPro® vs. Flat Paddle

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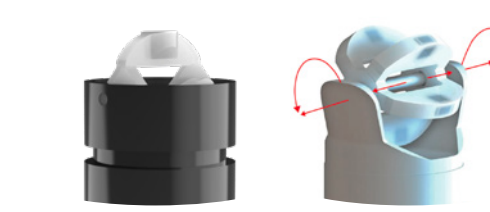- Superior Chemical And Wear Resistance vs PVDF

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)	Flow & Total (4-20mA)	Flow Rate (4-20mA + Relay)	Flow, Total & Batching (4-20mA + Relay)
TI3B	TI3P	TI3M	TI3R	TI3 F

truflo® TIW / TI3W Series

Insertion Paddle Wheel Flow Meter

M12 Connection   **Flying Lead**   **Hirschmann DIN**

316 Stainless Steel
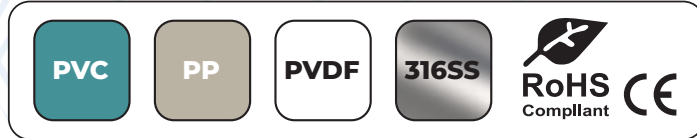
ICON PROCESS CONTROLS — Corrosion-Free Instrumentation Equipment

PVC PP PVDF 316SS RoHS Compliant CE

⇄ TI3/ 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.

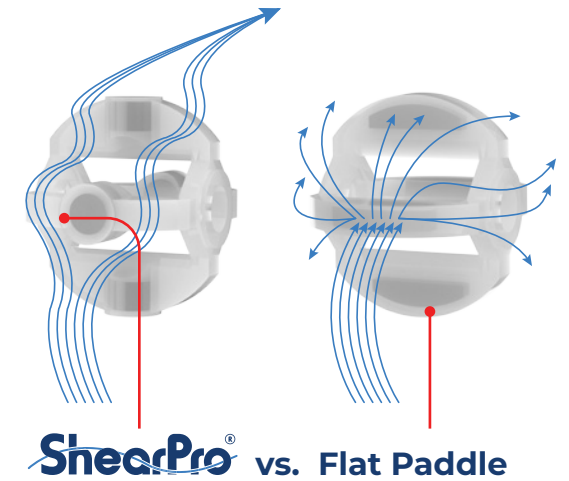The paddle wheel assembly consists of a engineered Tefzel® paddle and micro-polished zirconium ceramic rotor pin and bushings. High performance Tefzel® and Zirconium materials have been selected due to their excellent chemical and wear resistant properties.

- ⊘ ½" – 24" Line Sizes
- ⊘ Pulse | 4 – 20mA | RS485 | Voltage Outputs

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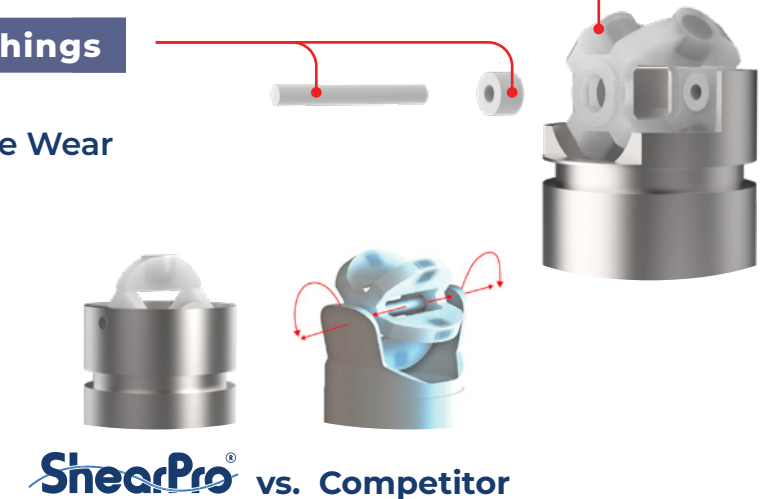 *Ref: NASA "Shape Effects on Drag"

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
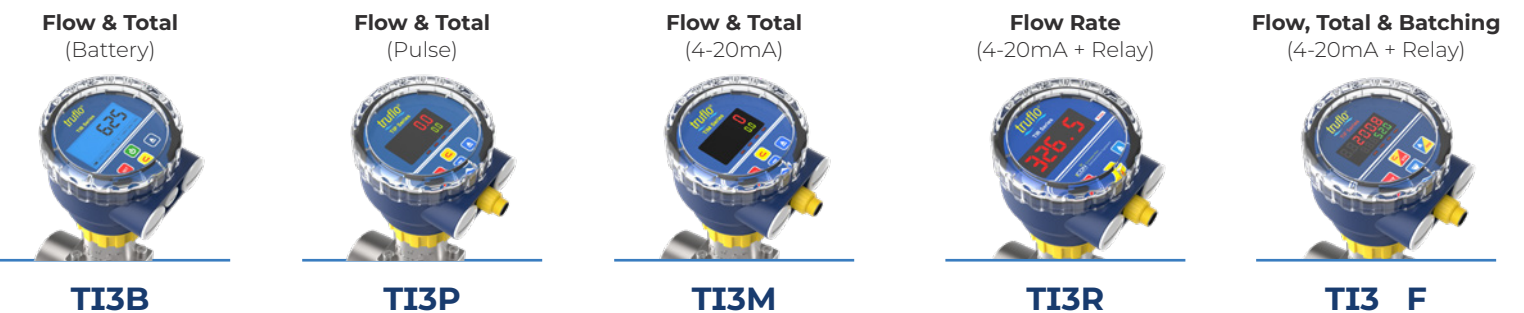- ⊘ Integral Rotor Bushings Reduce Wear and Fatigue Stress

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

ShearPro® vs. Competitor

truflo®

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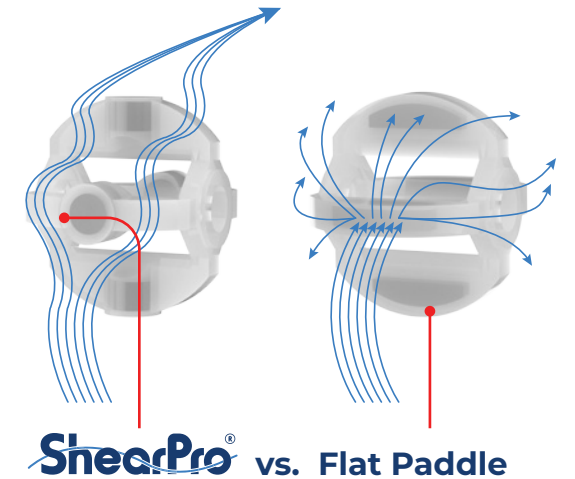
UltraFlo® 500 — Clamp-On Ultrasonic Flow Meter

- ⊘ **Under 2 Minute Installation Time**
- ⊘ **No Contact with Liquid**
- ⊘ **4–20mA | RS485 Output**
- ⊘ **No Moving Parts**

M12 Quick Disconnect

Bright LCD Display

Flow Rate and Total

PTFE Coated Aluminum Body

ICON PROCESS CONTROLS Corrosion-Free Instrumentation Equipment
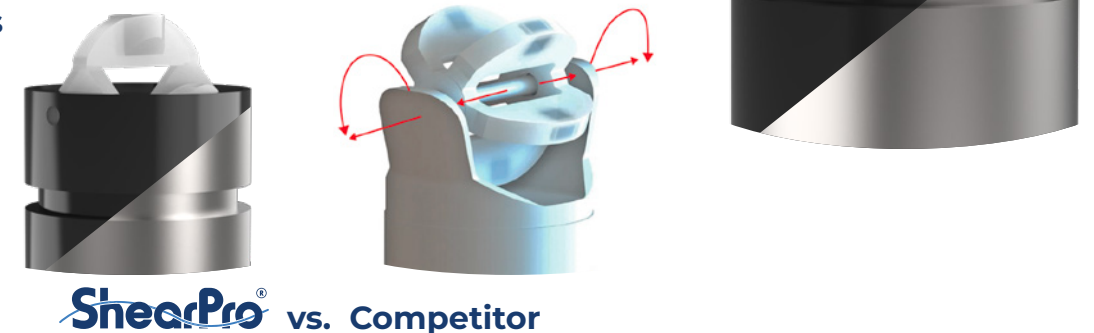
UltraFlo-500

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 0.3 to 15 ft/s | 0.1 to 5 m/s**
- ⊘ **Lightweight**
- ⊘ **Excellent external corrosion resistance**

Working Principle

Sender   Receiver
FLOW   FLOW   Receiver
Receiver   Sender
FLOW   FLOW   Sender
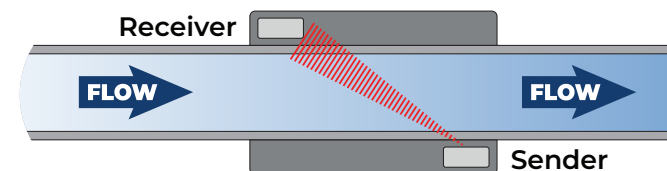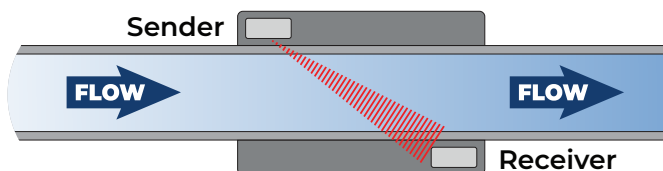
M12 Quick Disconnect

- ⊘ **Replaces Flying Lead Connections**
- ⊘ **Reduces Setup Time**
- ⊘ **Watertight Design**

Features

- ⊘ **No Pipe Cutting**
- ⊘ **Flow Rate + Totalizer | Resettable**
- ⊘ **Works on:**
  PVC | PP | PVDF | PE | SS | Copper
- ⊘ **Simple Programming**

Aluminum Body

UltraFlo-500

UltraFlo® Series

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

UltraFlo® 1000

- ⊘ Designed for Dosing | Pulsating Flows
- ⊘ All PFA Teflon®
- ⊘ Flared Tubing Connections
- ⊘ 4-20mA Output + 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™ Corrosion-Free
PROCESS CONTROLS Instrumentation Equipment
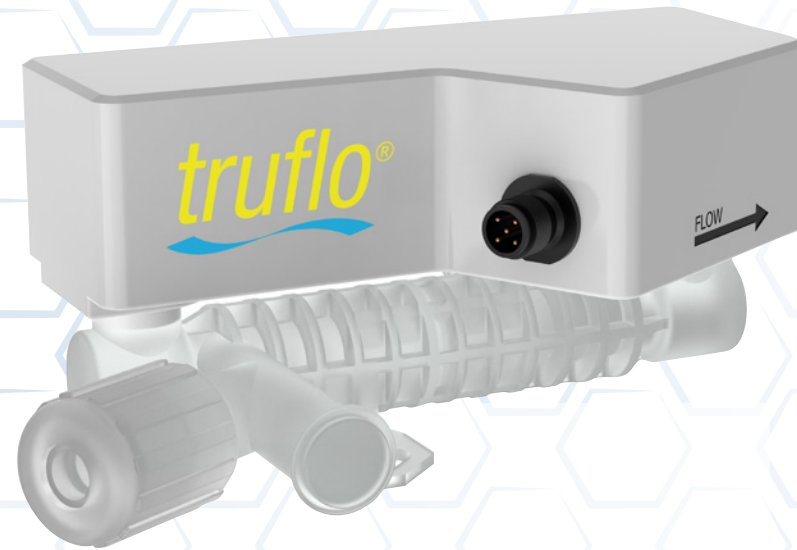
⇄ UltraFlo® Series — Ultrasonic Flow Meters

UltraFlo® 4000

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

The UltraFlo® 4000 utilizes ultrasonic technology as 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 Output
- ⊘ Low Flow Rates: 0.024 LPM | 0.006 GPM
- ⊘ 4-20mA Output + Pulse Relay
- ⊘ 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®
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**
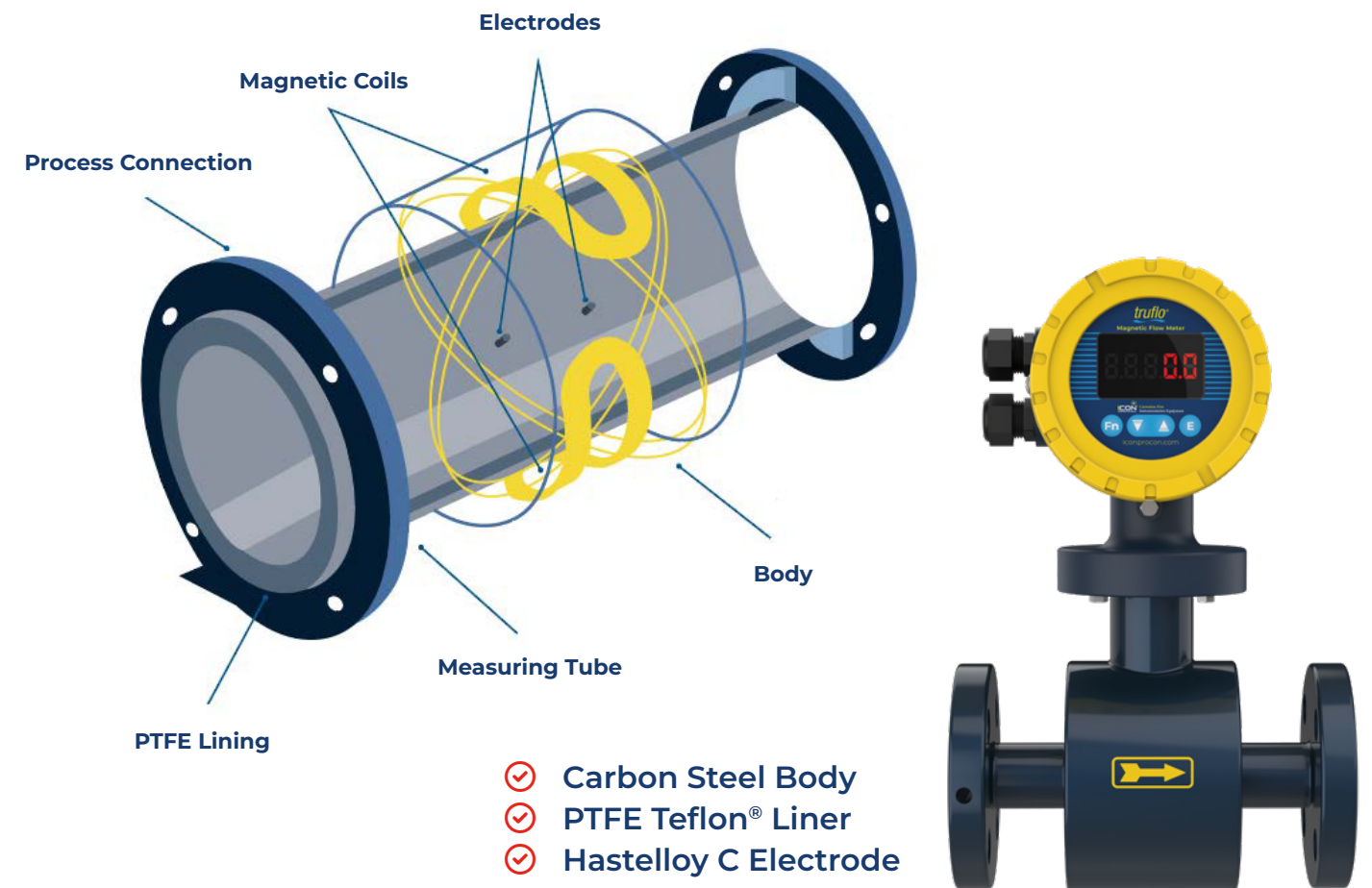
100 Series

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

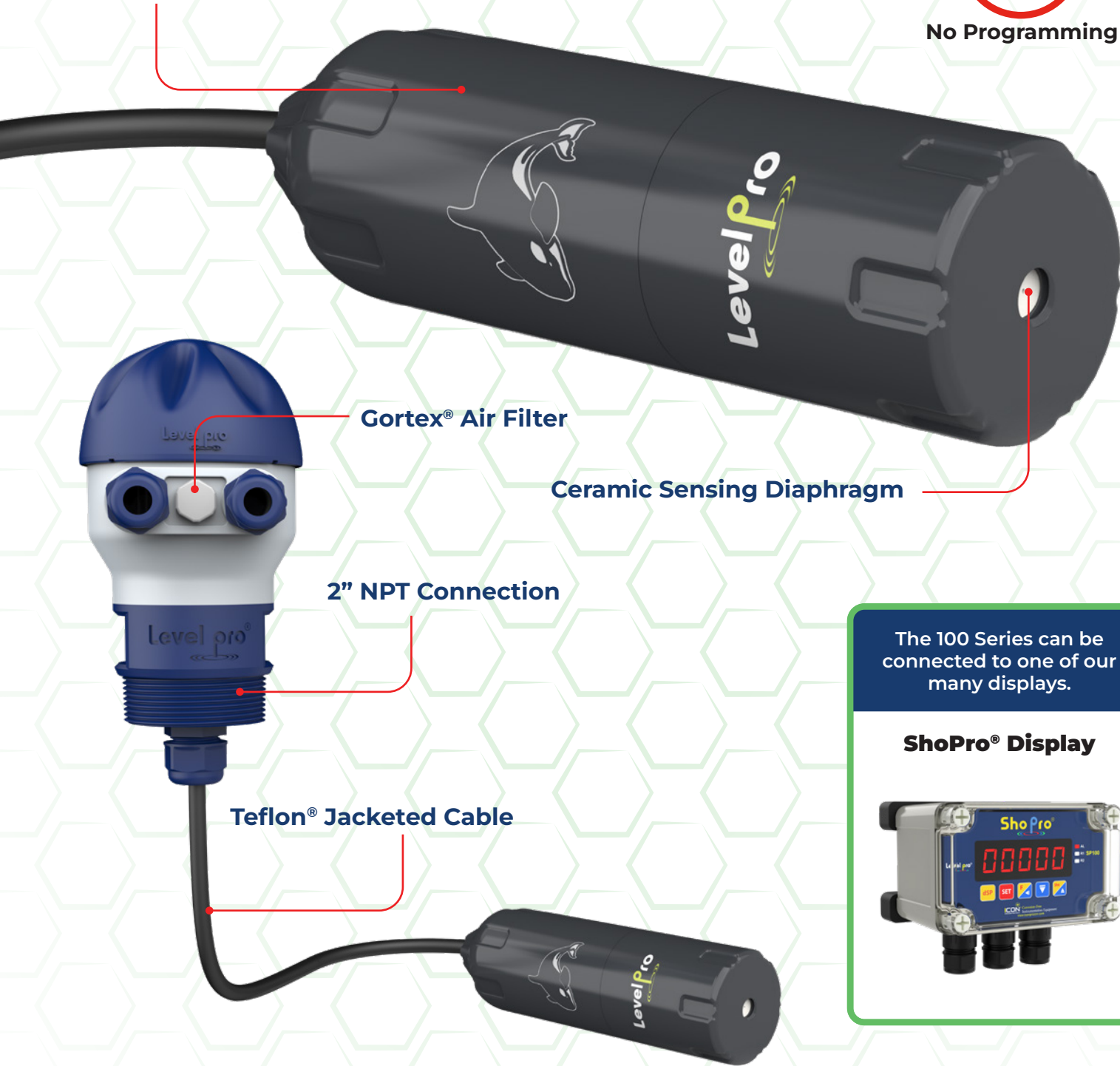2" NPT Connection

Teflon® Jacketed Cable

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
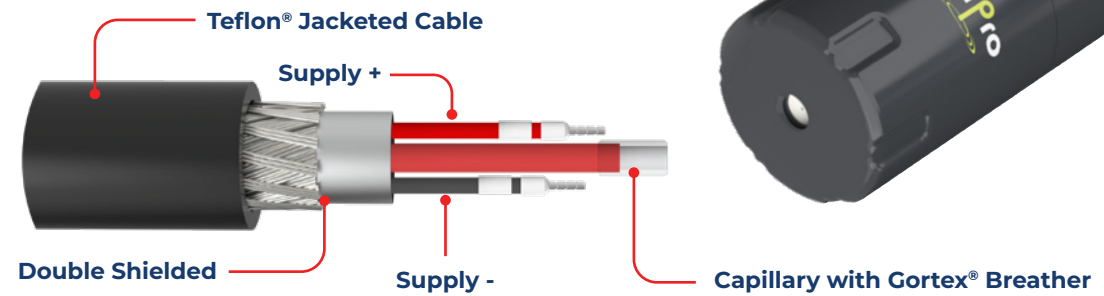
LevelPro® LP100 Tank Level Junction Box

- ✓ 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

LevelPro

ProScan® 8000

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

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® 8000 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® 8000 can be connected to one of our many displays.

ShoPro® Display

ProScan® 8002

LevelPro

ProScan® 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

L 03.234 m
14.348mA
ULTRAPRO 22.9°C
www.iconprocon.com

BK ▲ C OK

Push Button Programming

2" NPT Connection

PTFE Antenna

PTFE | 316SS | RoHS Compliant | CE

ICON PROCESS CONTROLS — Corrosion-Free Instrumentation Equipment

ProScan® Radar Level Transmitter (80GHz)

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

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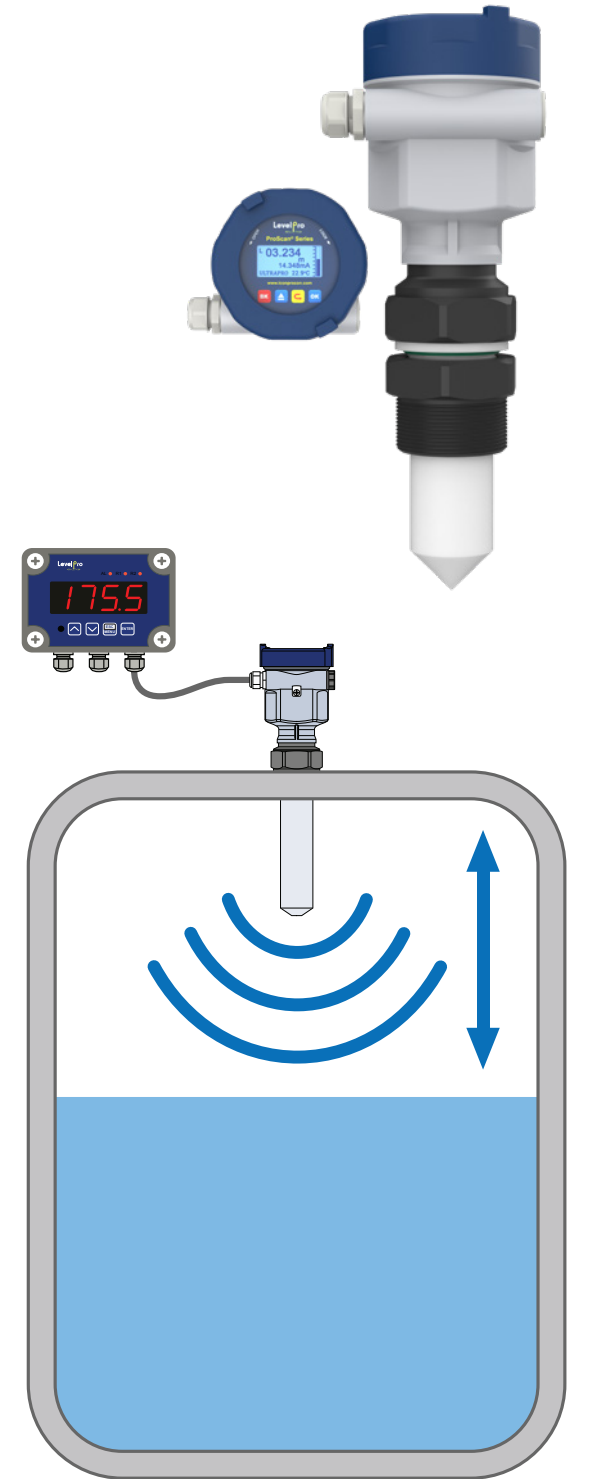
ProScan® 8002 Level Transmitter

- ✓ 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.
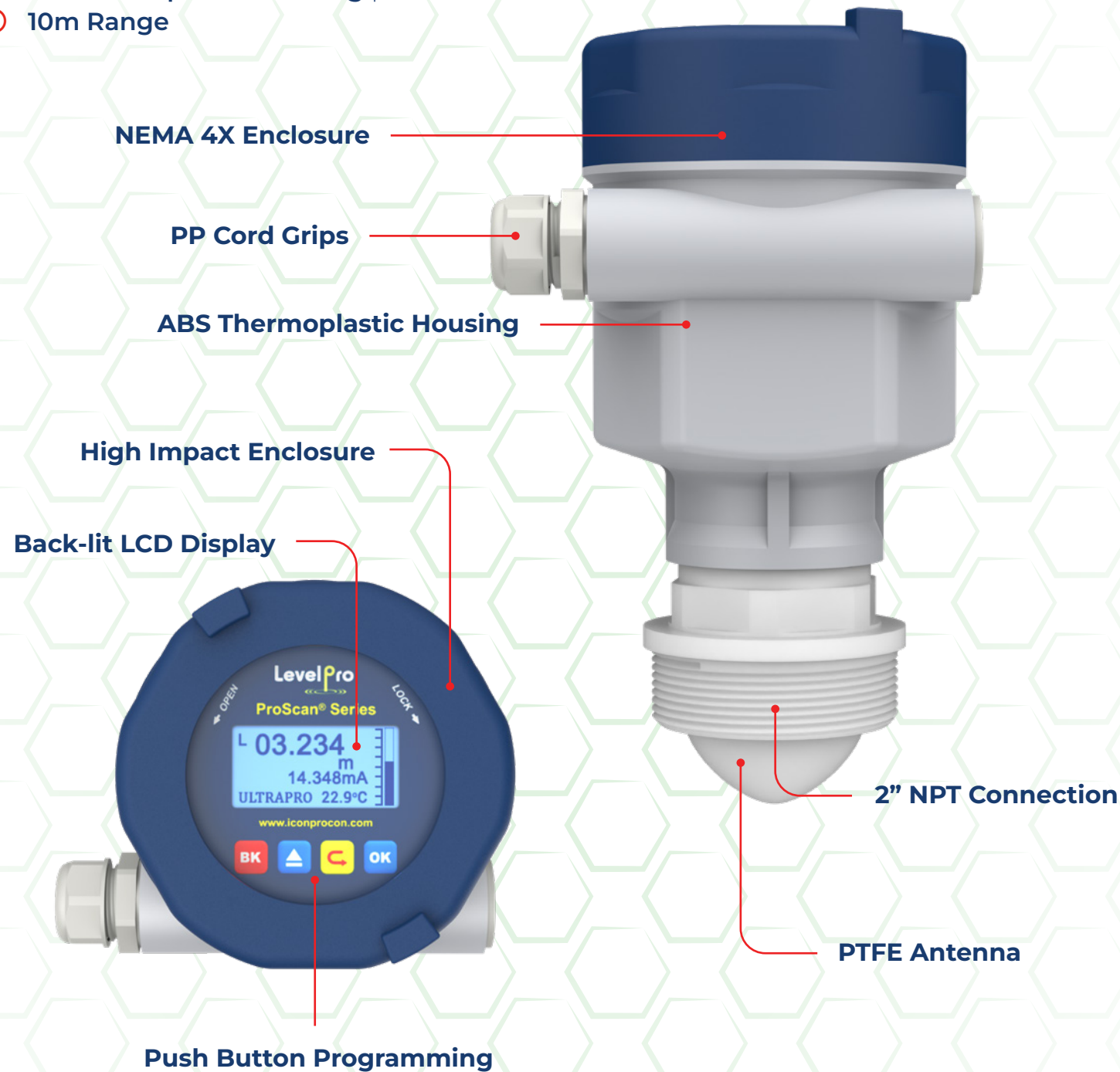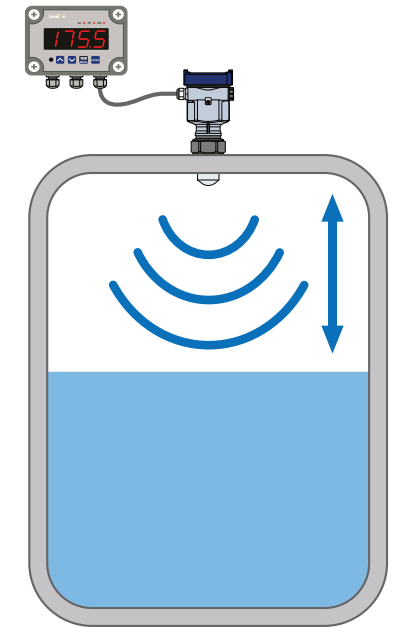
The ProScan® 8002 can be connected to one of our many displays.

ShoPro® Display

PTFE

316 Stainless Steel

LevelPro

SP100 | TVL | ITC-250

LevelPro® Level Process Displays

Optional Visual Alarm

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, 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 SP100 and TVL Series ensures that the will withstand the industry's most corrosive environments.

Optional Audible Alarm

SimplConnect Cable Grip Connectors

Both are available with either 2 Relay Outputs or 1 Relay, the and are well equipped for automating your tank level processes.

TVL Tank Level Display & Controller

- ☑ Controller + NEMA 4X Enclosure
- ☑ Input : 4-20 mA
- ☑ 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

LevelPro® Level Process Displays

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

ITC-250L Loop Powered Level Display

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

OUTDOOR VISIBILITY DISPLAY AUTOMATICALLY CHANGES TO GREEN

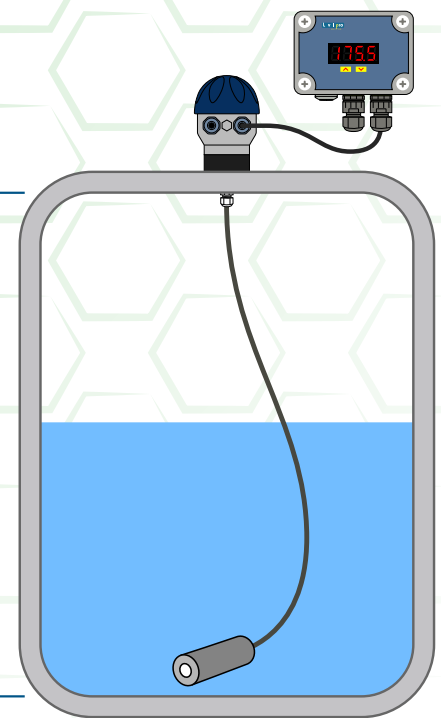**Chameleon Color Display**

ITC-250B Battery Powered Level Display

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

SimplConnect Cable Grip Connectors

20mA Full

4mA Empty

Level Pro
Mini B Series Level
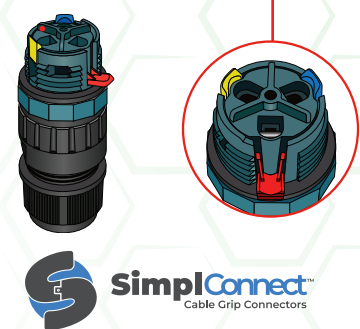
Chemical Combo Package | 120VAC

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
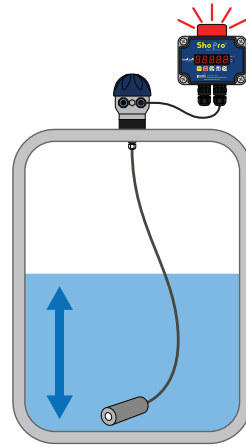- ✓ Battery Operated
- ✓ Scheduled Call-Outs

SENTINEL®

ShoPro® Display

ShoPro®
00000

- ✓ Pre-programmed
- ✓ Pre-wired

Includes 10' Extension Cable + Plug

SimplConnect™ Cable Grip Connectors

ClamPro® Quick Fit

- ✓ Connects Directly Onto Fill Pipe

ClamPro®

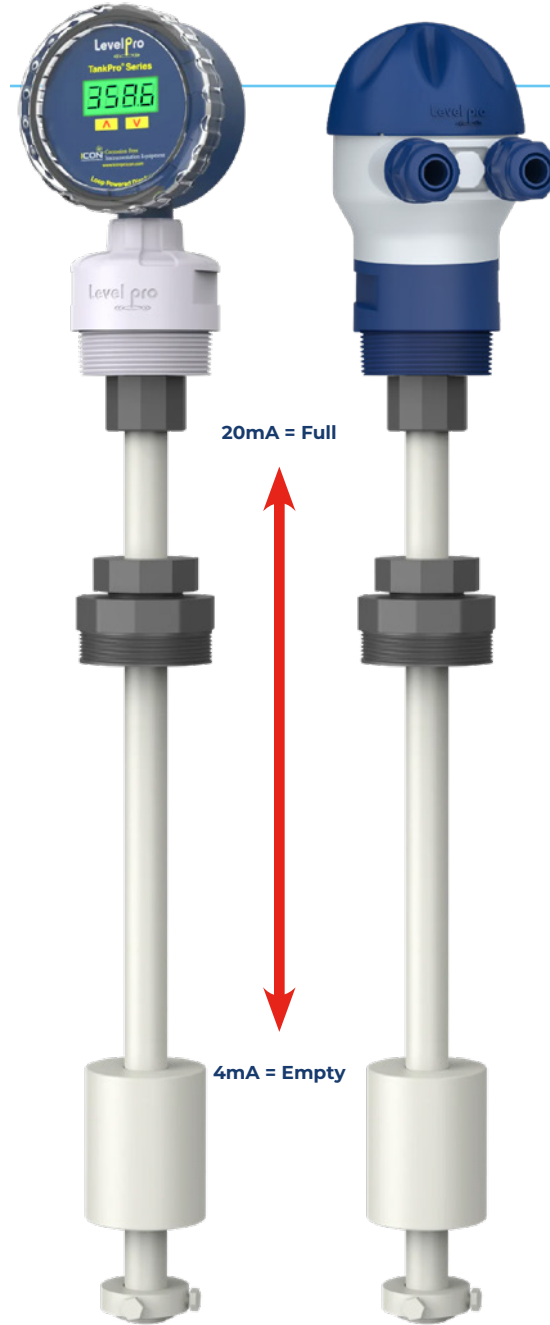# Level Pro
CFL Series Level

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

OUTDOOR VISIBILITY DISPLAY AUTOMATICALLY CHANGES TO GREEN

Chameleon Color Display

Flashing' Low Level Indication

Flashing' High Level Indication

Low Level

High Level

LP100 Tank Level Junction Box

ShoPro® Display

Loop Powered to Controller

- ✓ Pre-programmed
- ✓ Pre-wired

LevelPro

Sentinel Series LT
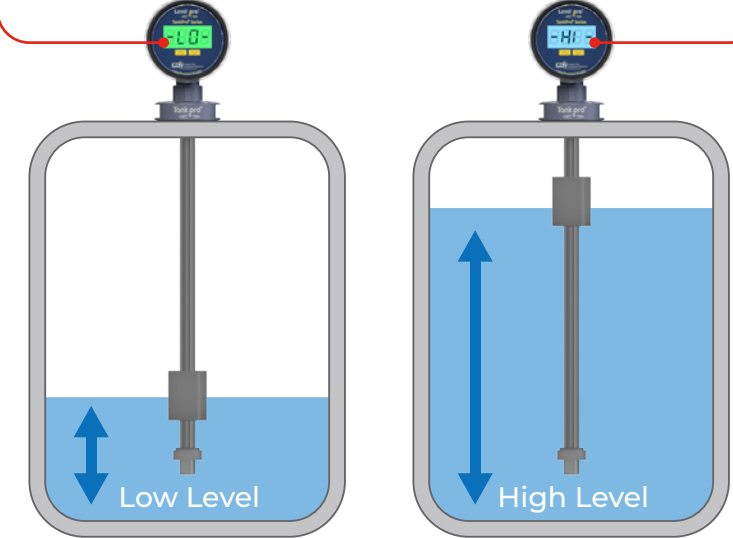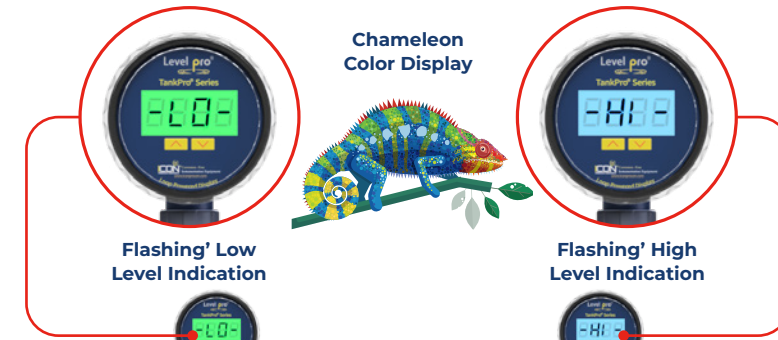
Sentinel® Remote Tank Level Monitoring

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 247TM Online
- ✓ Battery powered up to 5 years (3 calls/day)
- ✓ Variety of Trigger Points
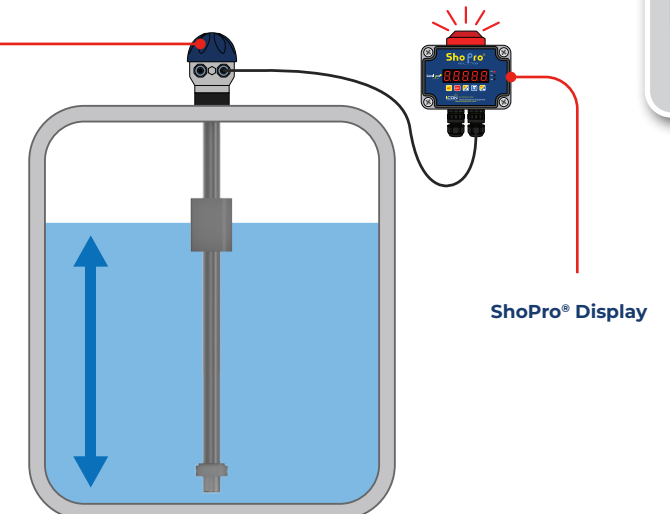- ✓ Mobile Ready Access
- ✓ Optional LB50 Mounting Bracket

Activate without Opening Lid

Sentinel LTE with Bracket

Battery Operated — No Power Cables
(Wired VAC available)

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 |
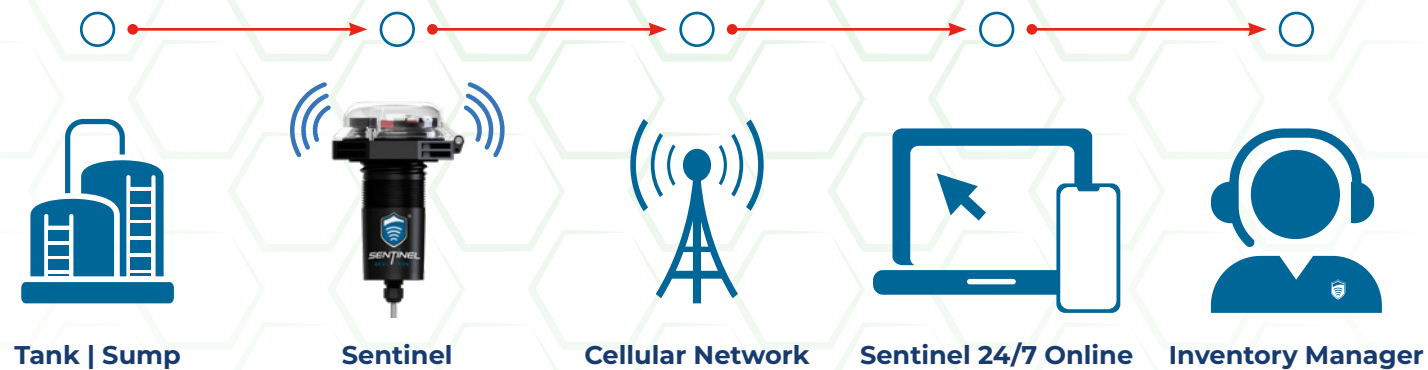
Access Tank Data From Anywhere
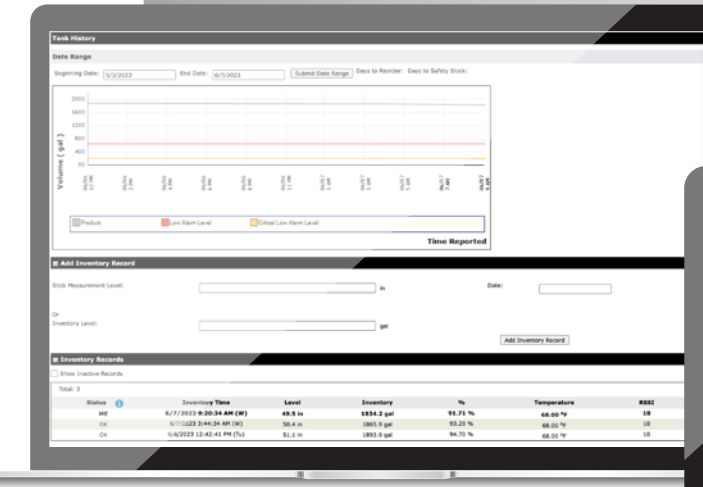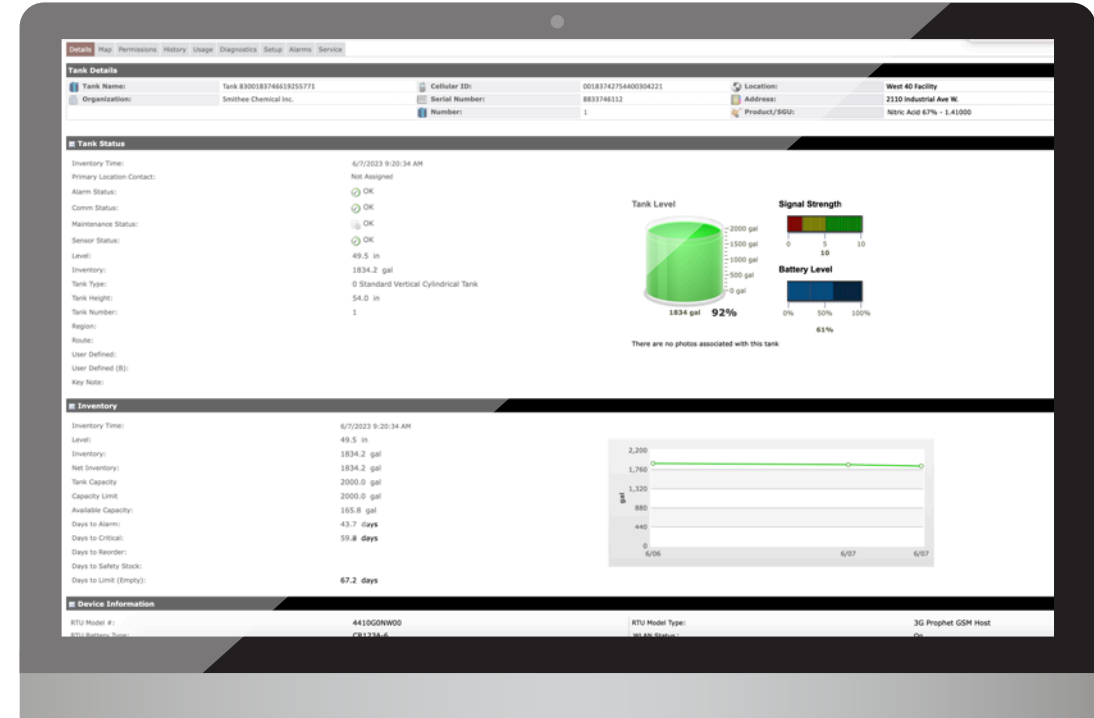
Current Tank Statistics
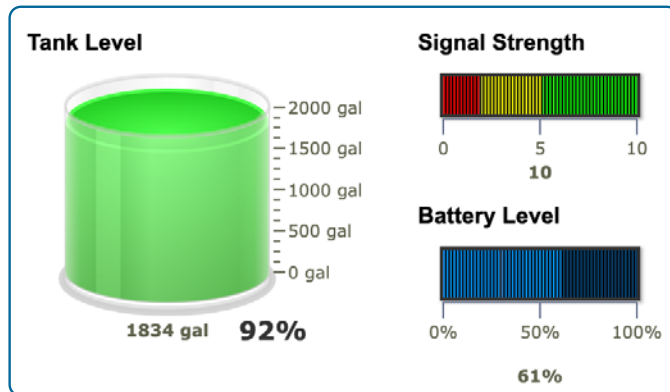
Tank Level
- 2000 gal
- 1500 gal
- 1000 gal
- 500 gal
- 0 gal
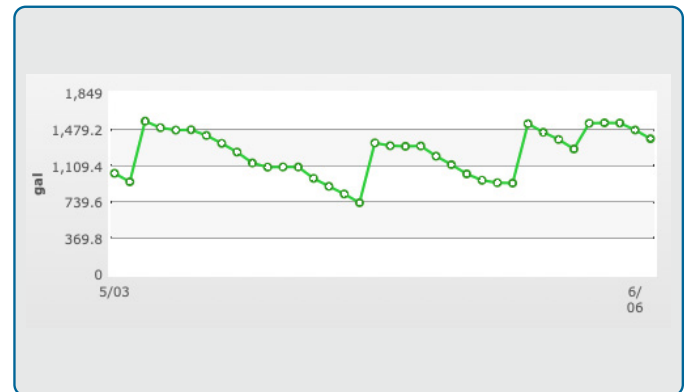
1834 gal **92%**

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

Direct 4-20mA

SimplConnect™
Cable Grip Connectors

NEXUS®

Junction Box

M12 Quick Connection
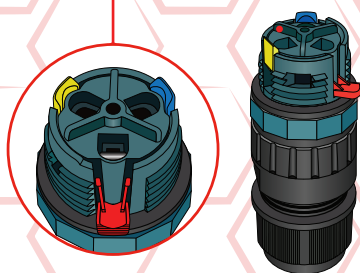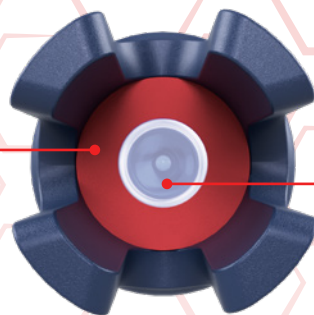
¾" NPT Connection

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**
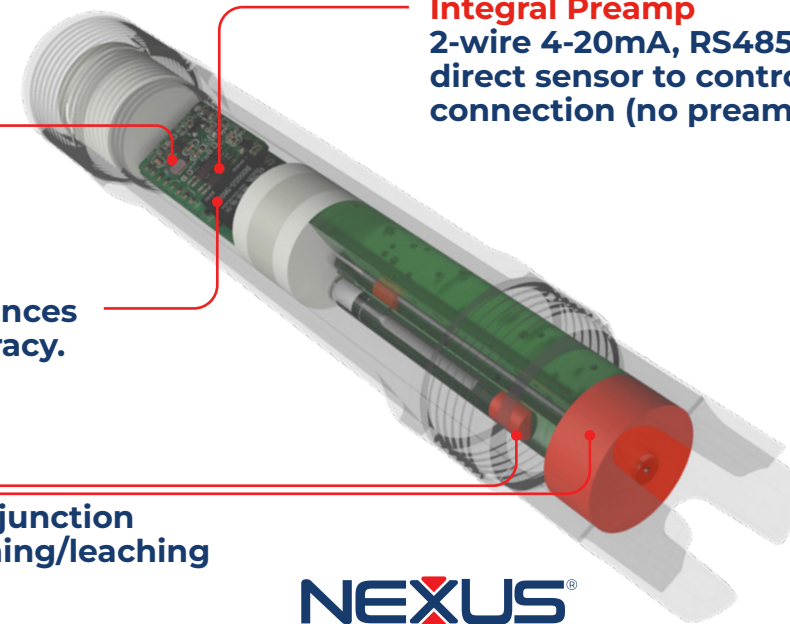
NEXUS®

8 Distinct Sensors Designed for the Toughest pH Environments

Eco-efficient	General	Complex	HF < 1000ppm	HF > 1000ppm	Seawater	Desulfurization	Ultra-pure H2O
P14E	P14G	P14C	P14H	P14F	P14S	P14D	P14P

R7 Series

ProCon® R7 Series — ORP Sensors

SimplCal®

Direct D400 Controller with SimplCal® Auto Calibration

Direct 4-20mA

SimplConnect™
Cable Grip Connectors
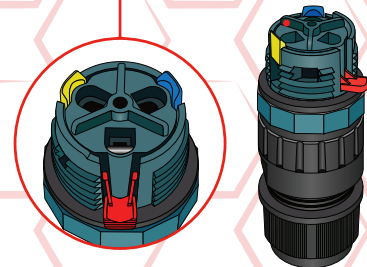
External Wiring Cable Grip + Wire Connector Combo
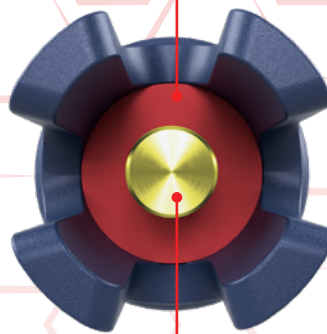
Junction Box

M12 Quick Connection

¾" NPT Connection

Nexus® Solid Reference

NEXUS®

Platinum Electrode R7G

Gold Electrode R7C

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®
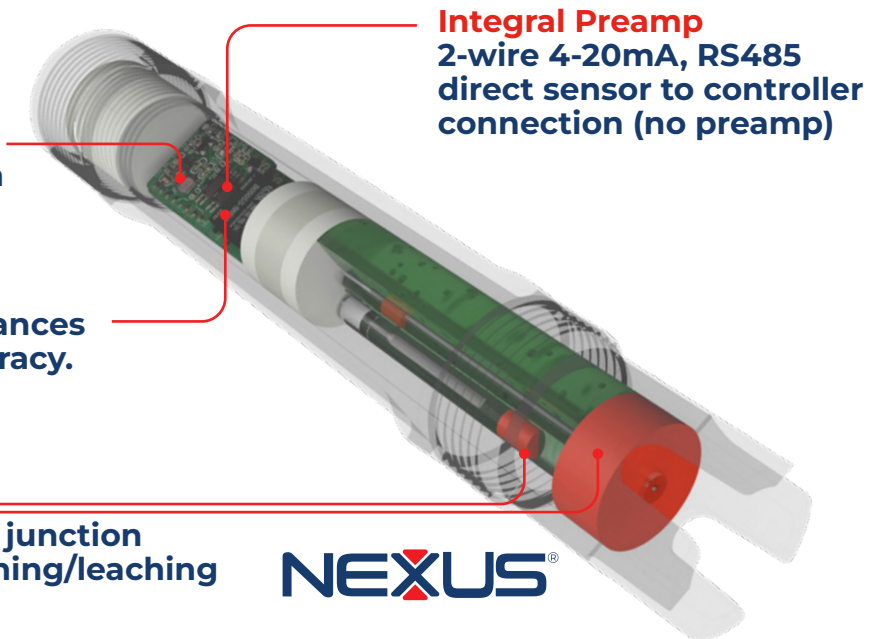
RS-485
Modbus RTU

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-

Braided Shield

Pin Connectors

C Series

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

SimplCal®
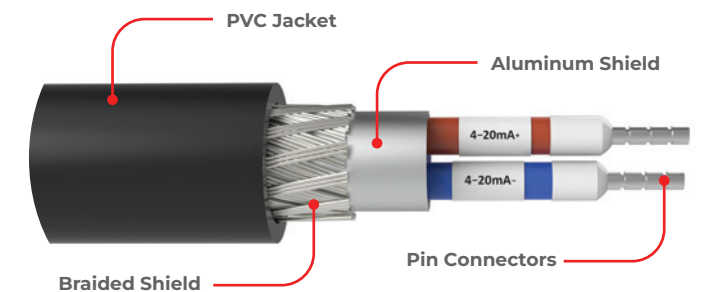
Direct D400 Controller with SimplCal® Auto Calibration

Direct 4-20mA

Junction Box

M12 Quick Connection

SimplConnect™ Cable Grip Connectors
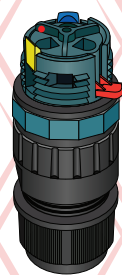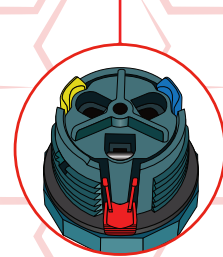
¾" NPT Connection

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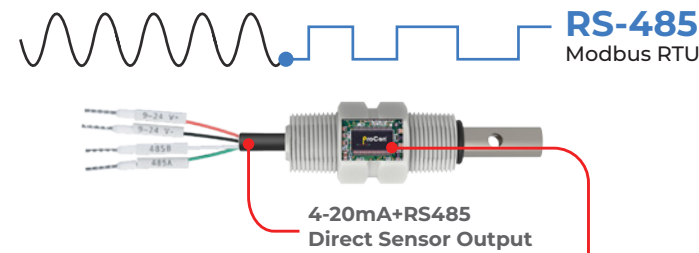
Advanced electronic circuitry for automatic sensor recognition and trouble-free calibration when connected to the ProCon® controller

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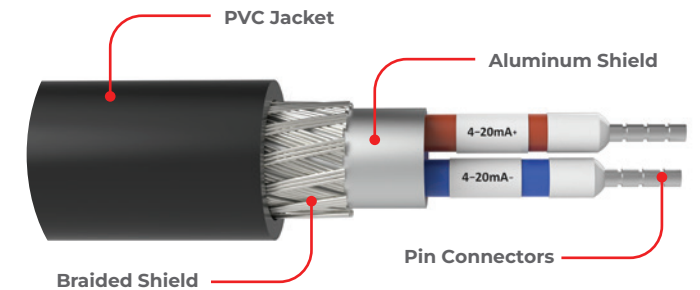
9 Distinct Sensors Designed to Outperform

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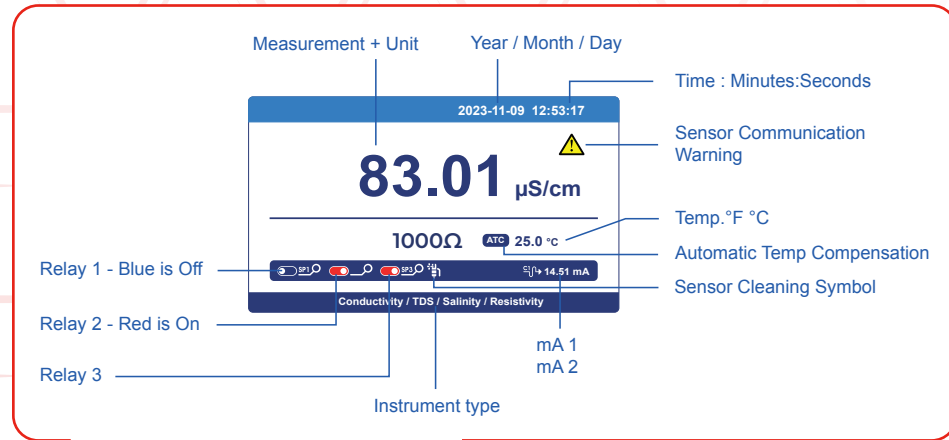
pH | ORP | Conductivity | TDS | Resistivity | Salinity Controllers

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.

Measurement + Unit — **Year / Month / Day**

2023-11-09 12:53:17

83.01 µS/cm

1000Ω   ATC 25.0 °C

Time : Minutes:Seconds

Sensor Communication Warning

Temp.°F °C

Automatic Temp Compensation

Sensor Cleaning Symbol

Relay 1 - Blue is Off

Relay 2 - Red is On

Relay 3

Conductivity / TDS / Salinity / Resistivity   ▼ 14.51 mA

mA 1
mA 2

Instrument type

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

Color Dual Display

8.220 pH
7.401 pH

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.

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

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

Economy	Color LED	Single Data Trending	Dual Data Trending	Single NEMA 4X	Dual NEMA 4X	Universal 5-Channel
7.00 pH	4.01 pH	4.001 pH	4.001 / 83.01	4.001 pH	8.220 / 7.401	
D300/C300	**D400/C400**	**D500/C500**	**D520/C520**	**D700/C700**	**D720/C720**	**U900**

SimplCal®

SimplConnect™
Cable Grip Connectors

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. Saves 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" G Process Connections

Factory Pre-Filled

Range Markers

Atmospheric Pressure Compensator

ICON PROCESS CONTROLS™ Corrosion-Free Instrumentation Equipment

PVC PP PVDF RoHS Compliant CE

Pressure Sensors

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

Both models are available with a junction box for an extra measure of durability

PPS SERIES Single Display Pressure Transmitter | Switch

- ⊘ Display Changes from Green to Red (Alarm Status)
- ⊘ Highly Accurate 0.25%
- ⊘ Display Pressure Units Psi, Bar
- ⊘ 3 Amp Relay Alarm Functions
- ⊘ 4-20mA Analog Output Function
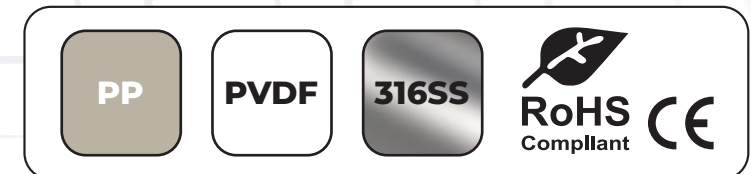- ⊘ IP66 NEMA 4X
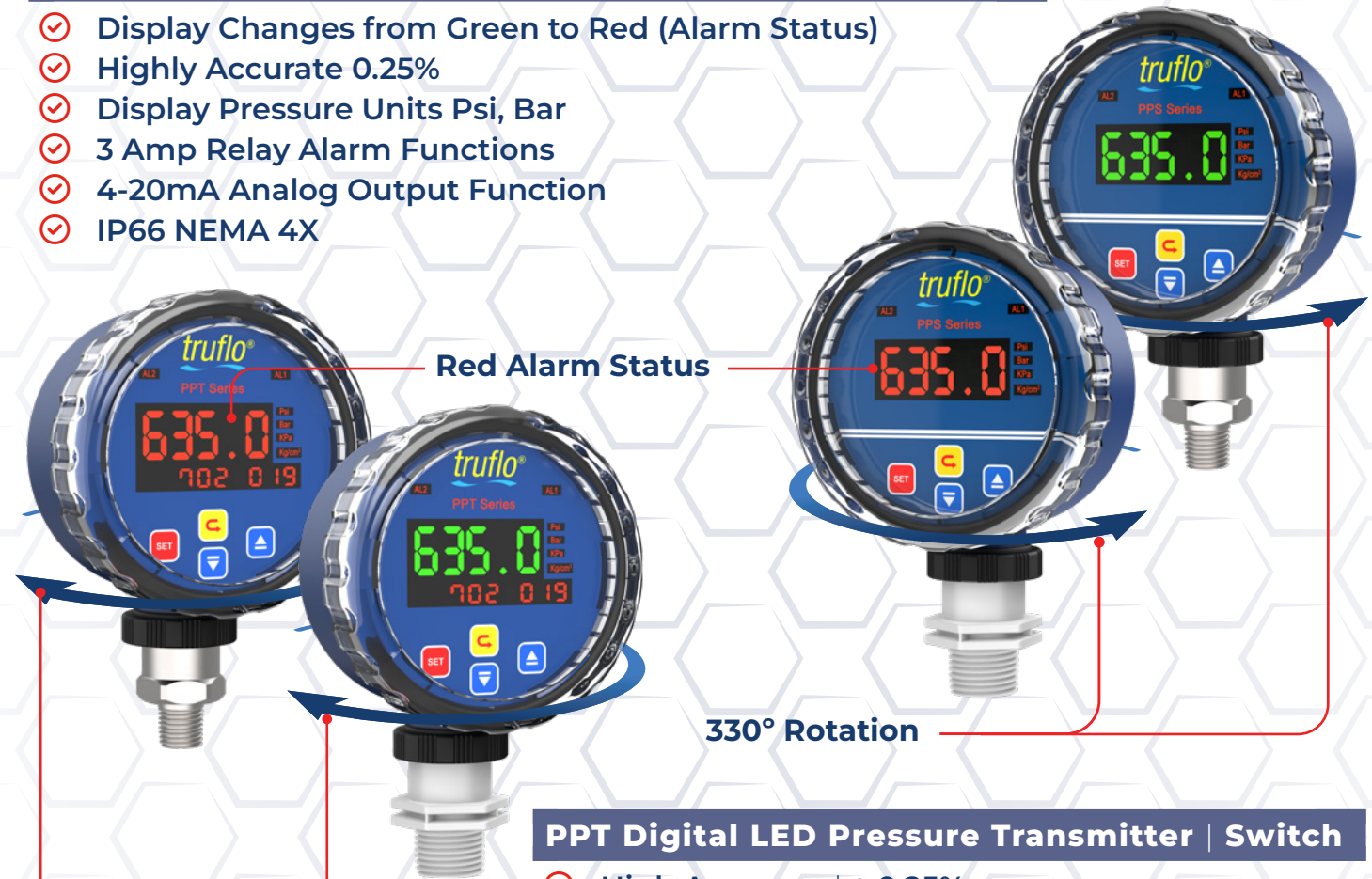
Red Alarm Status

330° Rotation

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

330° Rotation

PP PVDF 316SS RoHS Compliant CE

PRD Series

LP Series

Digital LED Pressure Transmitter | Switch

- ⊘ High Accuracy: ± 0.25%
- ⊘ LED Display
- ⊘ Small Footprint | Perfect for OEM Skid Systems

- ⊘ 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 the industry's most accurate and reliable pressure transmitter and switch. The PRD Series is truly unique when it comes to pressure measurement in corrosive environments.
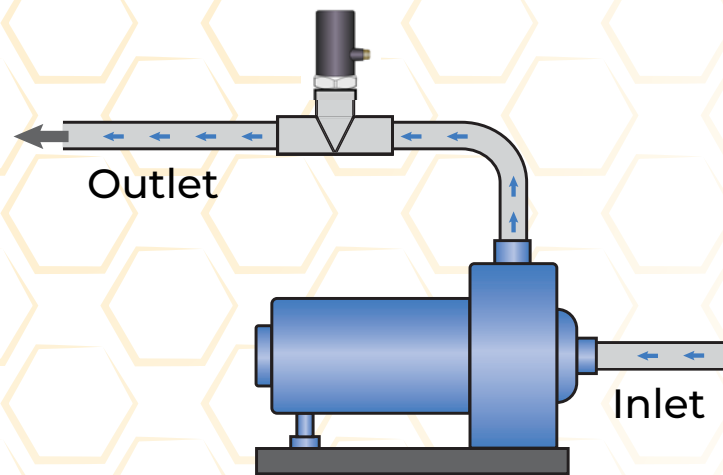
PRD pressure transmitters are available in PP, PVDF & 316 SS and come equipped with a bright LED display that will change from green to red in any upset condition.
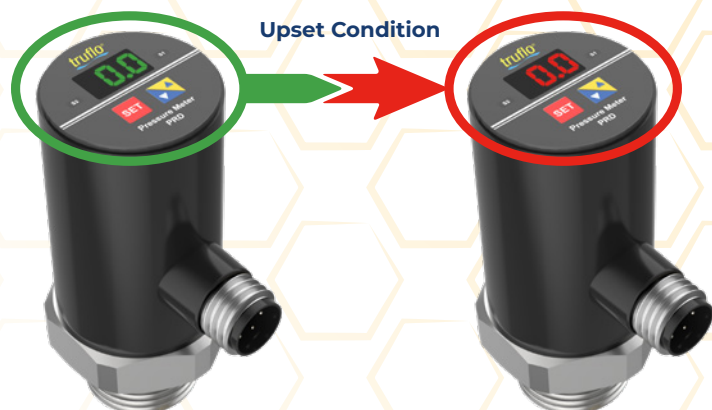
The PRD has a 4-20mA output + two (2) 1 amp relays.

The TruFlo® PRD pressure transmitters are the perfect solution for OEM Skid manufacturers because of their compact design.

LED Display

Available in PP | PVDF | 316 SS

Ceramic or Stainless Steel Diaphragm

M12 Quick Connect

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

Corrosion-Free Instrumentation Equipment

PP | PVDF | 316SS | RoHS Compliant CE

In-Line Pressure Transmitter | Switch

All Plastic Design

Mini Hirschmann DIN Connection

M12 Quick Connect

PP | PVDF

½" FNPT

Ceramic Diaphragm

316SS

LP50

¼" MNPT

LP200

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. Perfect for tough industrial applications.

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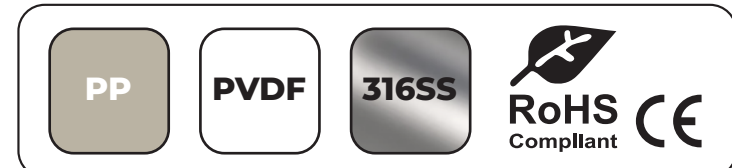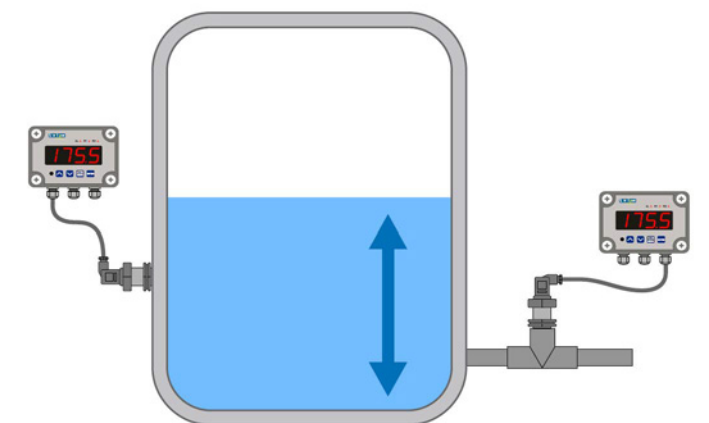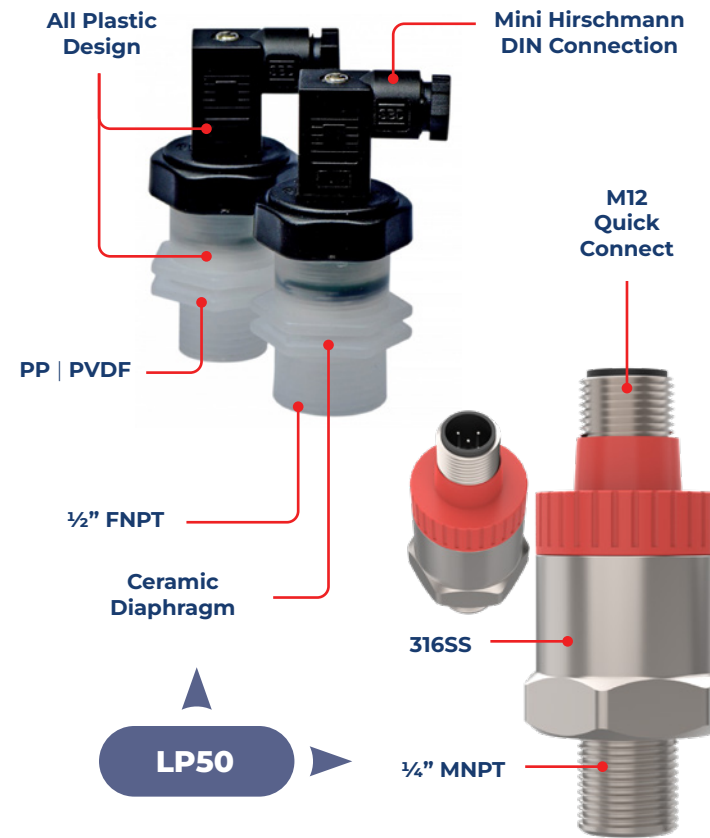
HPS Series

(High) Pressure Transmitter

- ☑ High Accuracy: ± 0.5%
- ☑ M12 Connection

- ☑ High Pressure
- ☑ SS Sensing Diaphragm
- ☑ 4-20mA Output
- ☑ Compact Design

The TruFlo® HPS Series Pressure Transmitters provide both high accuracy and longevity in a compact one-piece design.

The HPS is equipped with a 4-20mA output and available in both 304 and 316 SS construction.

The TruFlo® HPS Series Pressure Transmitters are the perfect solution for OEM Skid manufacturers because of their compact, lightweight design.

Outlet

Inlet

Example

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

GI Series
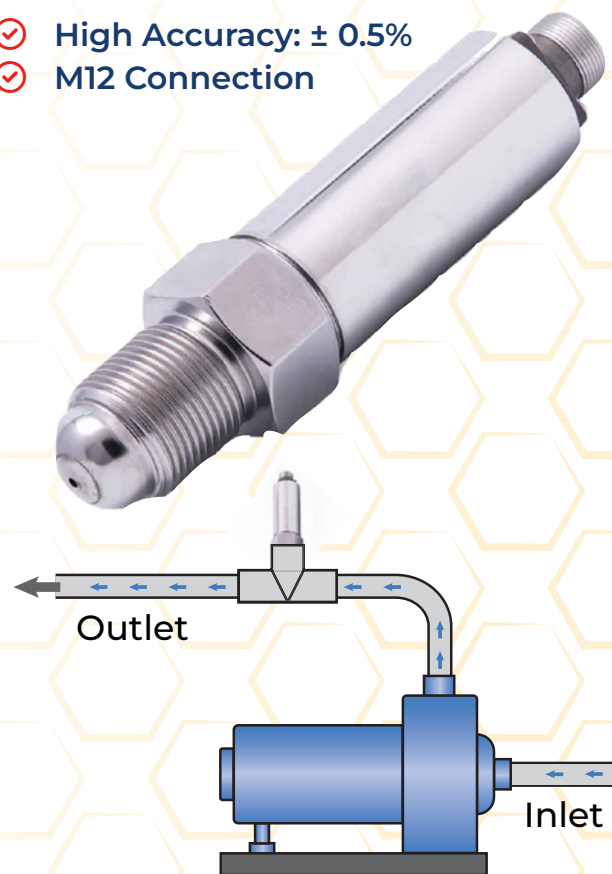
All Plastic Gauge Guard

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

BRP Series

Back Pressure | Relief Valves

- ☑ PTFE Teflon® /EPDM Bonded Diaphragm
- ☑ Glass Filled PP Bonnet
- ☑ PVC | CPVC | PP | PVDF Bodies
- ☑ Field Adjustable 5-150 psi Range
- ☑ True Union Design
- ☑ Socket or NPT Connections

BRP

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 PRB 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.

BRP3 (316SS)

PV Series

Injector

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

PVC   PP   PVDF   316SS   RoHS Compliant   CE

LeakPro® LDS Series
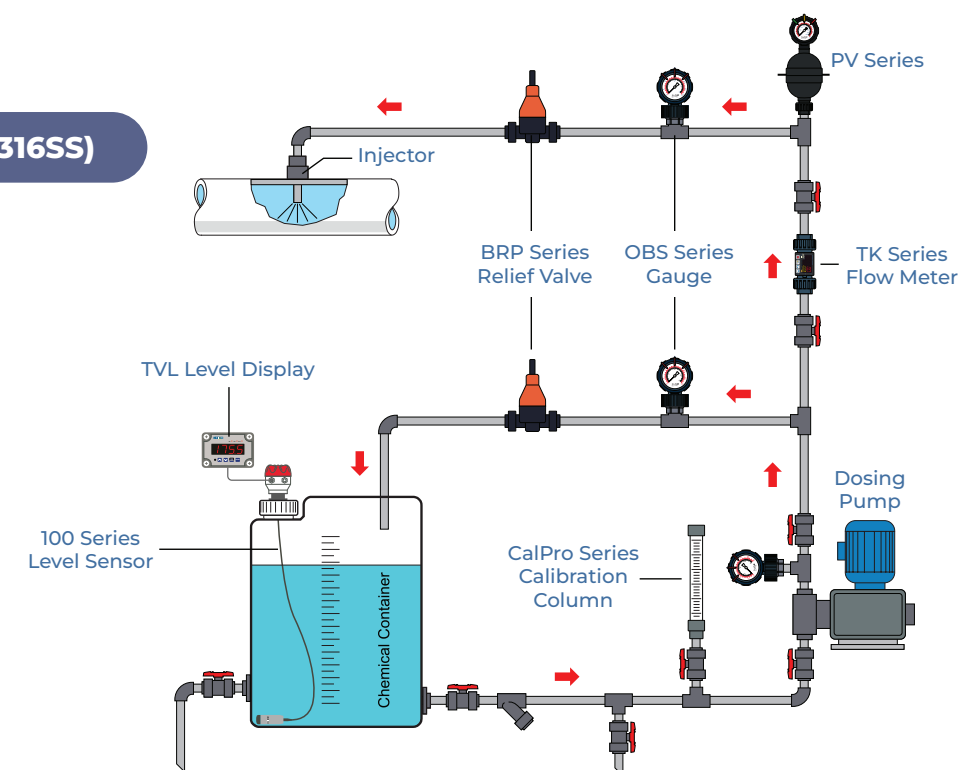
Leak Detection Capacitance Sensor
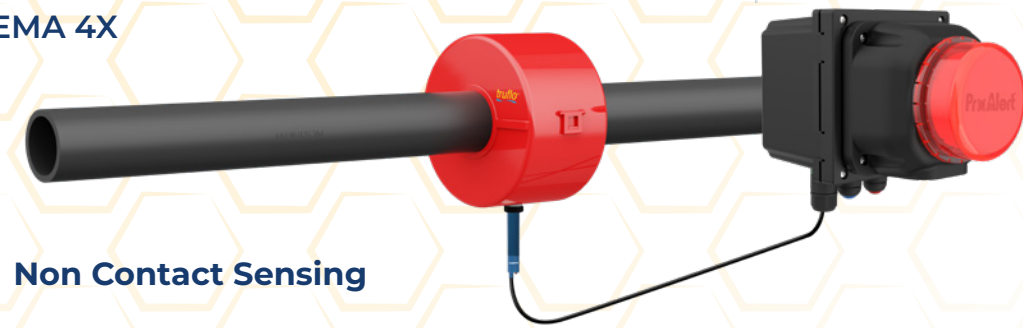
LevelPro® LDS-YN Industrial series is an advanced all plastic corrosion resistant leak detection sensor that utilizes ultra-sensitive electrostatic technology which constantly and accurately senses the presence of liquids. These sensors are ideally suited for monitoring the interstitial area between 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

Red LED Light Indicator

PPT | PTFE Body

ProAlert 1000

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

ICON PROCESS CONTROLS — Corrosion-Free Instrumentation Equipment

PVC PPT PTFE 316SS RoHS Compliant CE

LeakPro® LeakDtec® LDP2

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 capability**
- ⊘ **Rapid indication of leak location**

LeakAlert

Valve

LDP2-2-A

Relay Output

Lead Cable

Sense Cable

Jumper Cable

Cable Terminal

Cable Connector

Leak Location

LeakDtec®

ICON Corrosion-Free Instrumentation Equipment
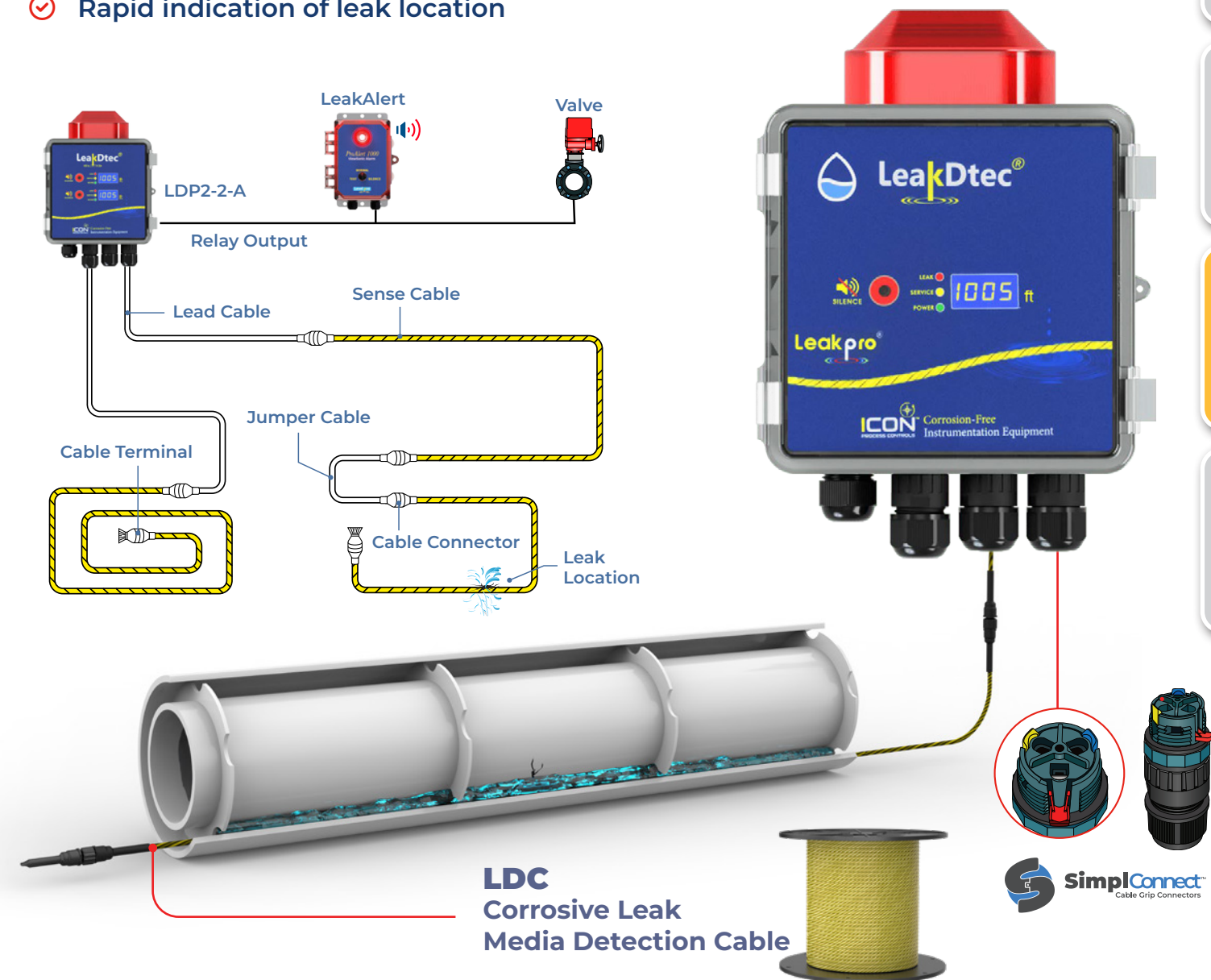
LDC Corrosive Leak Media Detection Cable

SimplConnect™ Cable Grip Connectors

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
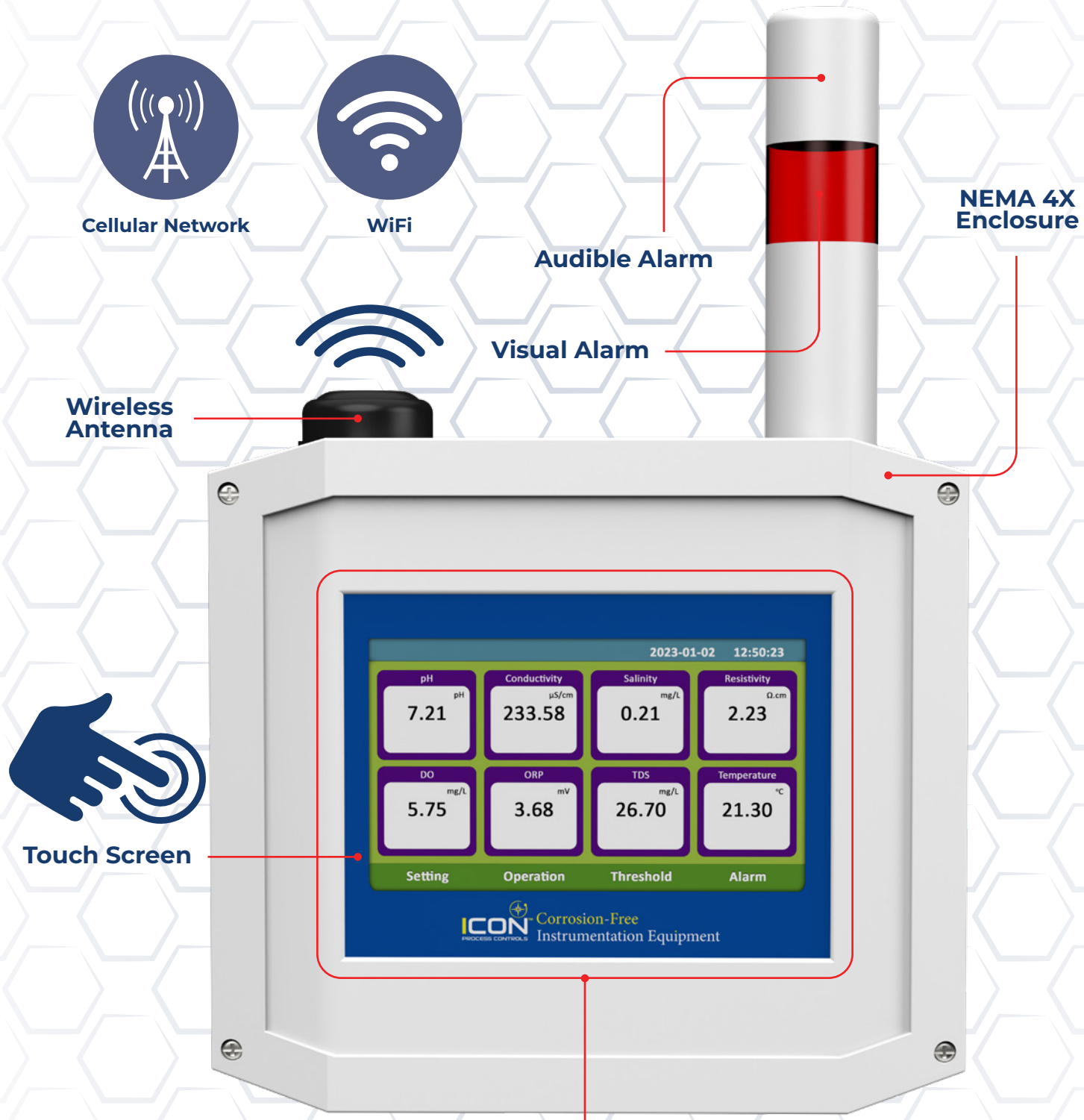
Simultaneous Multi-Channel Functionality (x16)

**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.
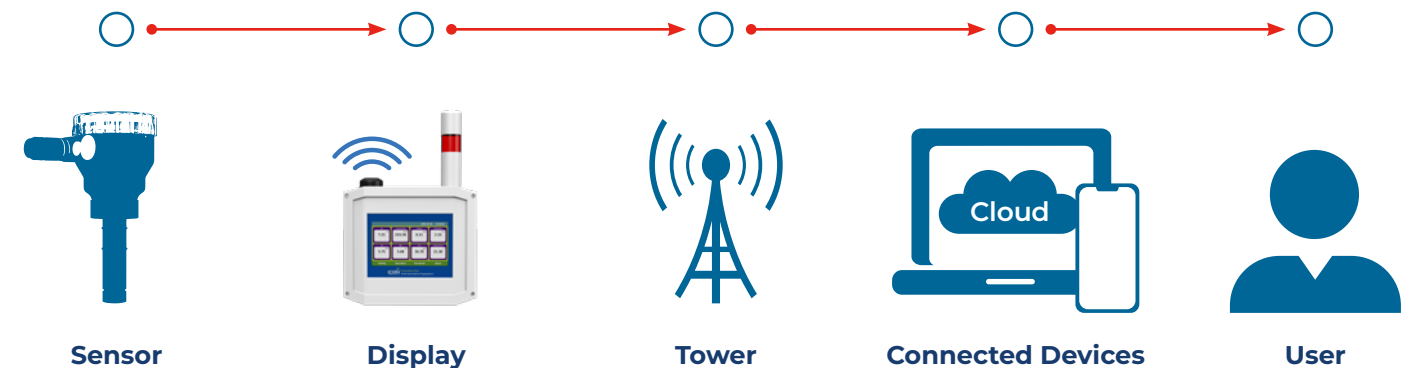
MCC-16 Wireless Universal Industrial Controller

- ⊘ 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

pH, Conductivity, ORP, Pressure

Dissolved Oxygen, TDS, Salinity

Suspended Solid, Temperature

Ammonium Turbidity

Level Measurement

Leak Detection

Valve Position

Flow Velocity

How It Works

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

Cloud

IZON LRT Series LoRa

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)

LoRa ⟳ 4-20mA 5 AUX In/Out Gateway
STATUS
POWER
Aux3 Aux4
Aux2 Aux5

Pin Assignment
1. DCin+ 12 to 36V   2. DCin-
3. DCout 10V   4. DCout-
5. 4-20mA+   6. 4-20mA-
7. A/D Input   8. NPN Output

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).
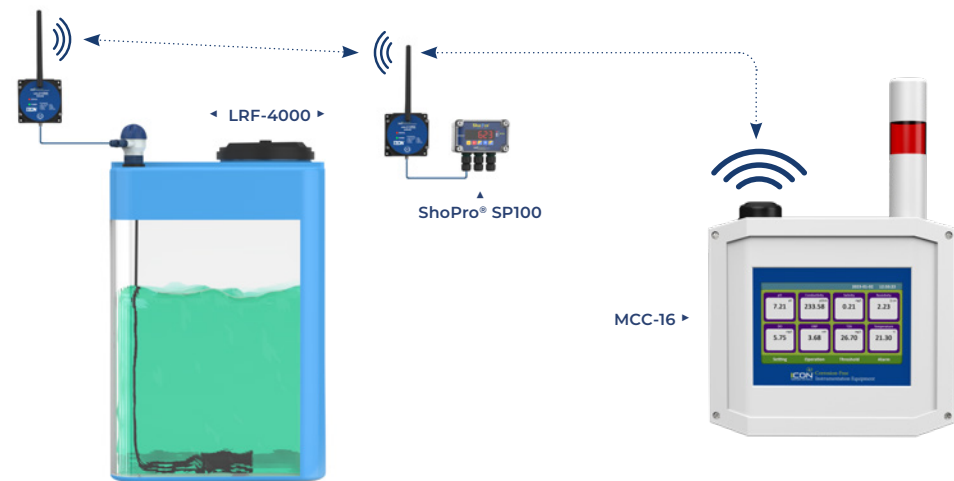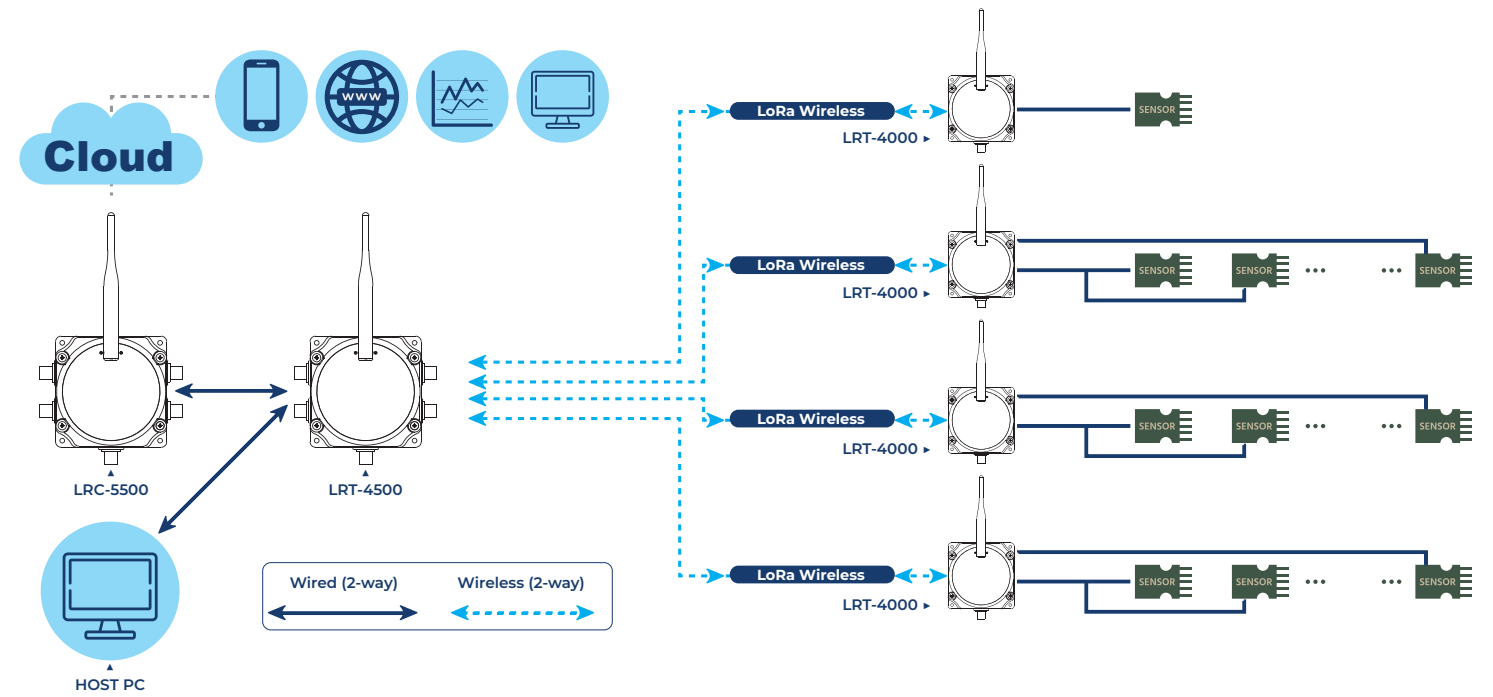
Experience easy setup and installation, and anytime, anywhere operation and monitoring with IZON Wireless Gateways.

Keep your eyes on everything remotely.

How It Works

Optional Solar Battery

Cloud

LoRa Wireless Internet / Intranet

Cloud

LoRa Wireless — LRT-4000
LoRa Wireless — LRT-4000
LoRa Wireless — LRT-4000
LoRa Wireless — LRT-4000

SENSOR

LRC-5500   LRT-4500

HOST PC

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

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

LRC Series

NB-IoT

NB-Iot — Long Range Cellular Transmitter

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

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

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
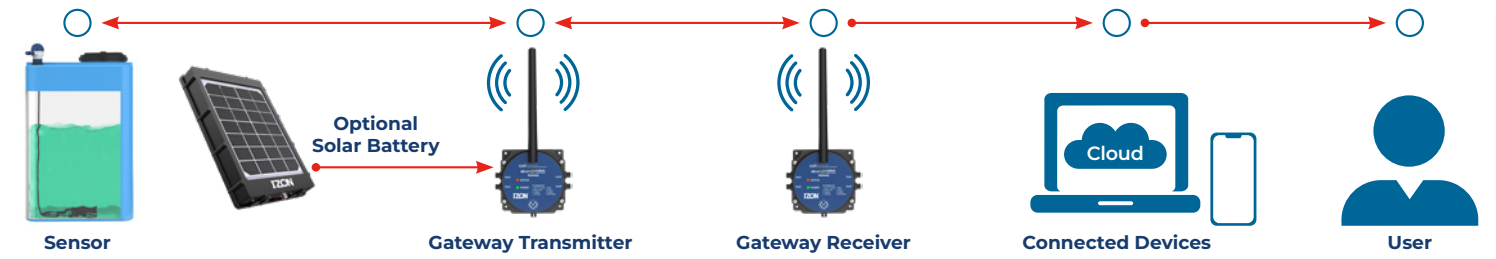☑ Redundant battery inside. (LRC-6500B)

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

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

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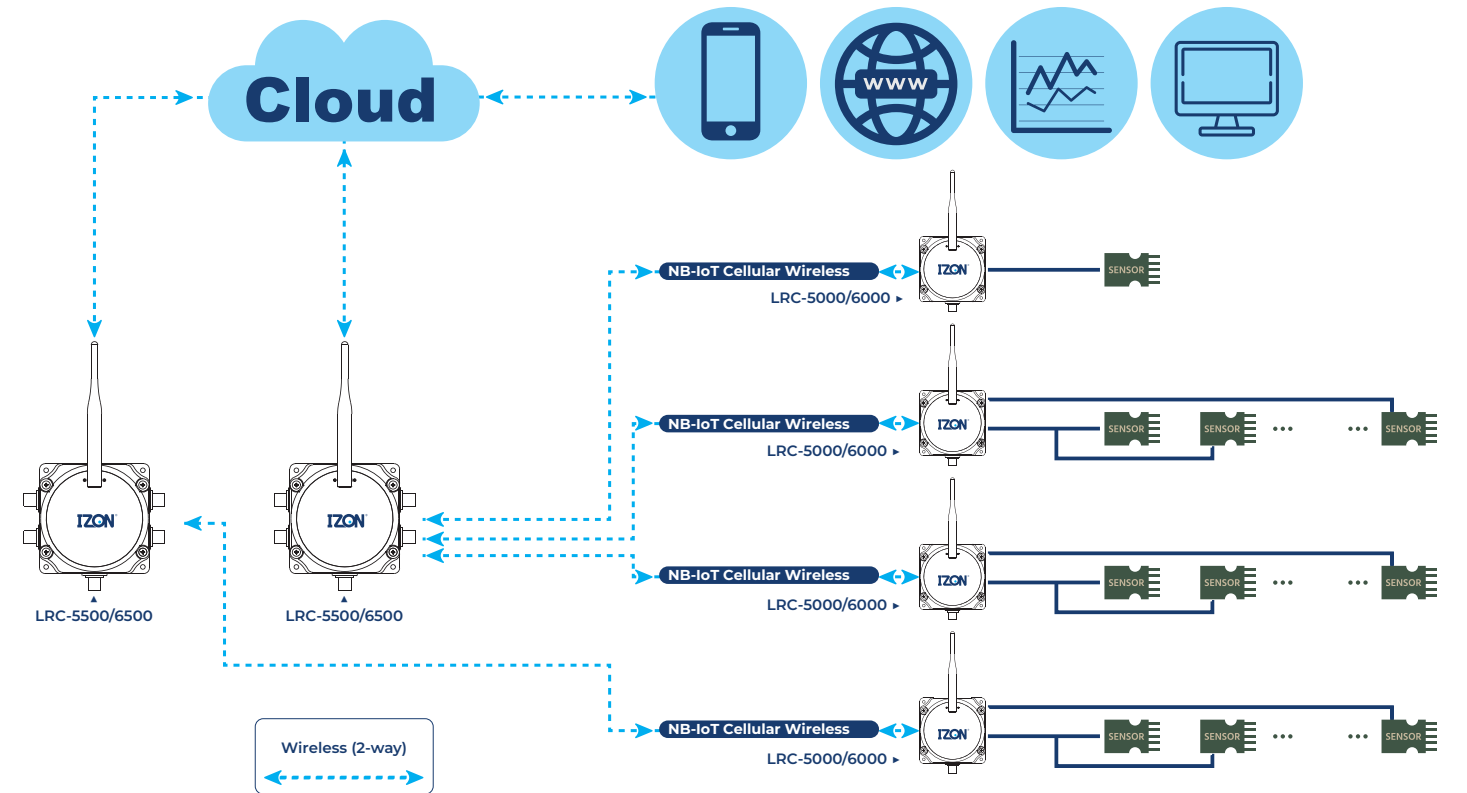
The LRC Series can be connected to analog sensors / thermometers / flow meters / level sensors / digital sensors / modbus sensors, and also provides analog / digital control contacts and GPS positioning functions. Additionally, it includes sensor data collection and upload to cloud / server and sensor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

How It Works

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

Optional Solar Battery

NB-IoT Wireless Internet

Cloud

LRC-5500/6500

LRC-5500/6500

Wireless (2-way)

NB-IoT Cellular Wireless — LRC-5000/6000 ►

LRC-6500 (NB-IoT) — Cloud

2-Way communication
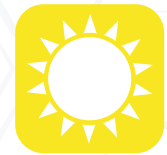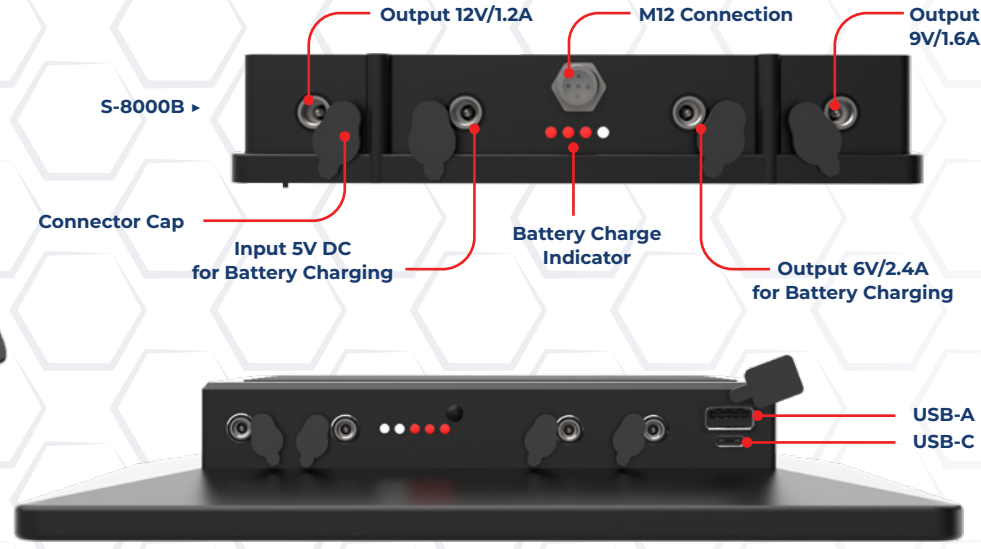Wired
Wireless

IZON®
S-8000B | S-25000B

LG Solar Lithium-Ion Battery Pack

S-8000B (8,000mAh)

S-25000B (25,000mAh)
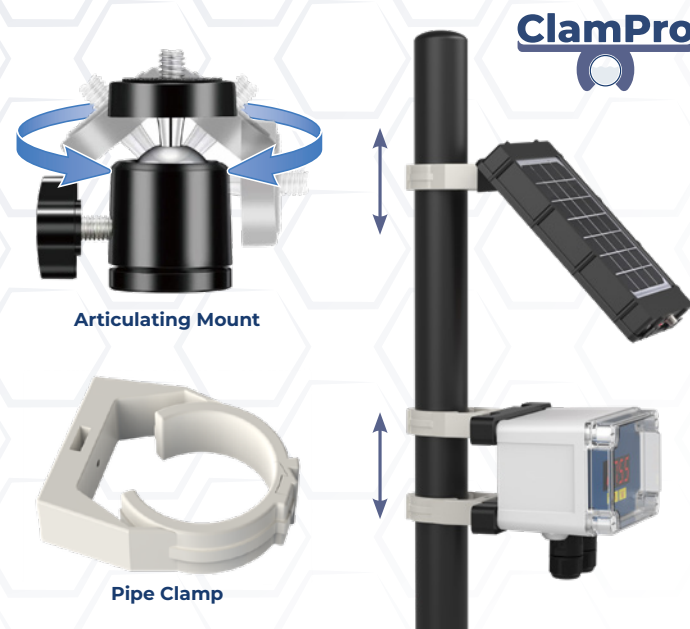
- High Capacity Rechargable Li-ion Battery
- 8,000mAh/25,000mAh Energy Charge
- Up to 48 days of Power to Sensor
- NEMA 6 Enclosure
- Superior Monocrystalline Silicon Panel Cells
- Lightning-resistant Circuity Protection
- Rapid Charging
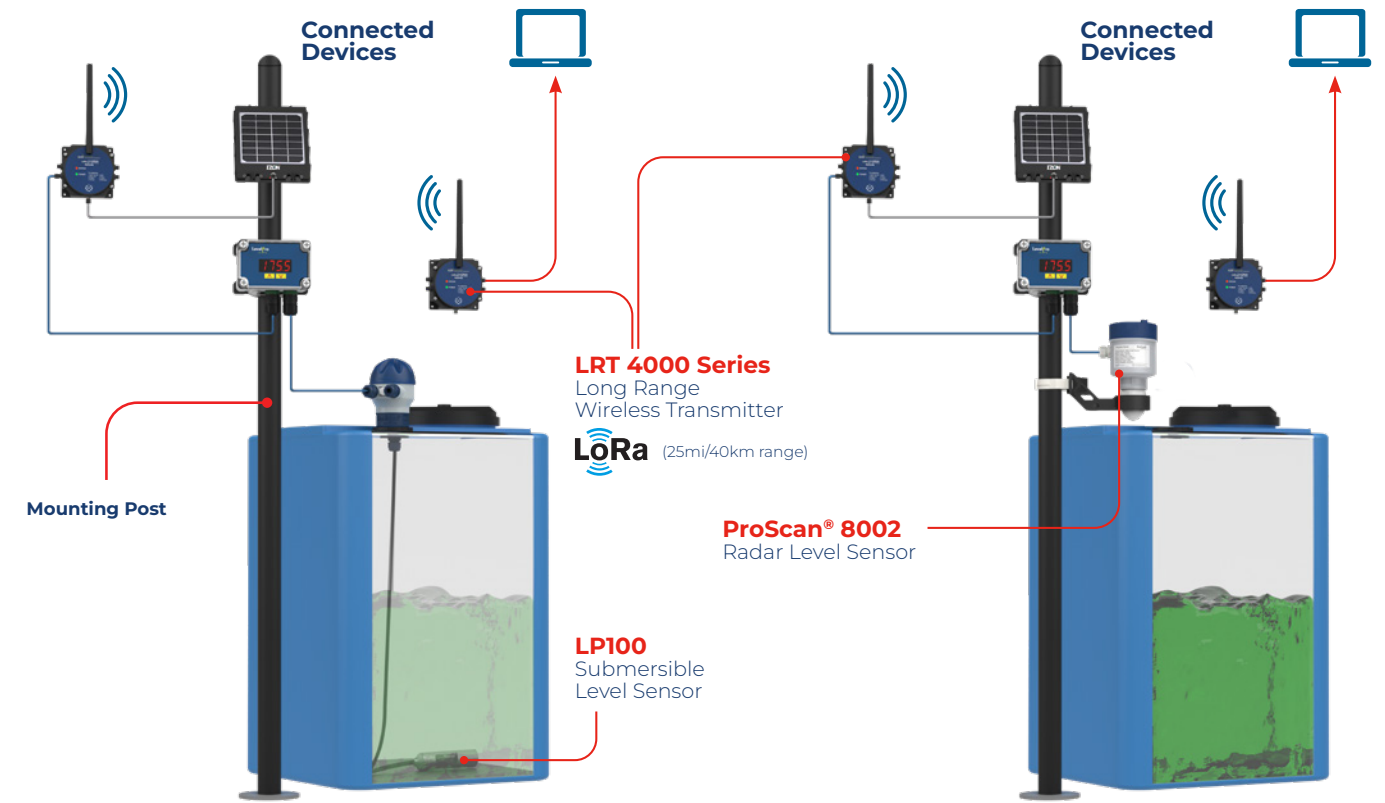- No internal Wiring required
- Wall Mount | Pipe Mount

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

S-25000B ▶

USB-A
USB-C

Power up under the sun with our Solar Battery Pack!

Never run out of power again with our S-8000B/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

Leak Detection

pH/ORP/Conductivity Sensors

Analytical Controllers

Wireless Transmitters

LevelPro
ProAlert® PA223 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
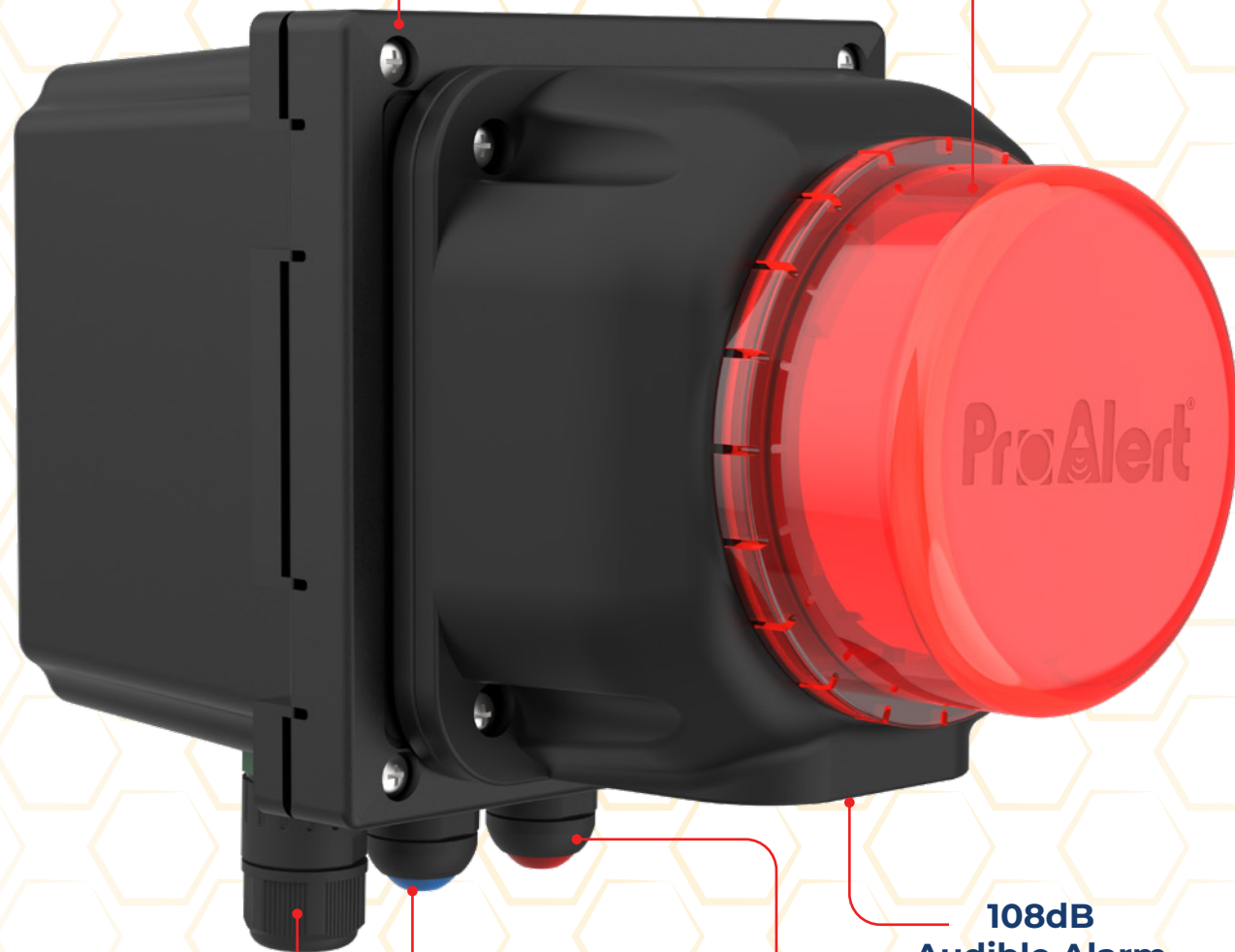
108dB Audible Alarm

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
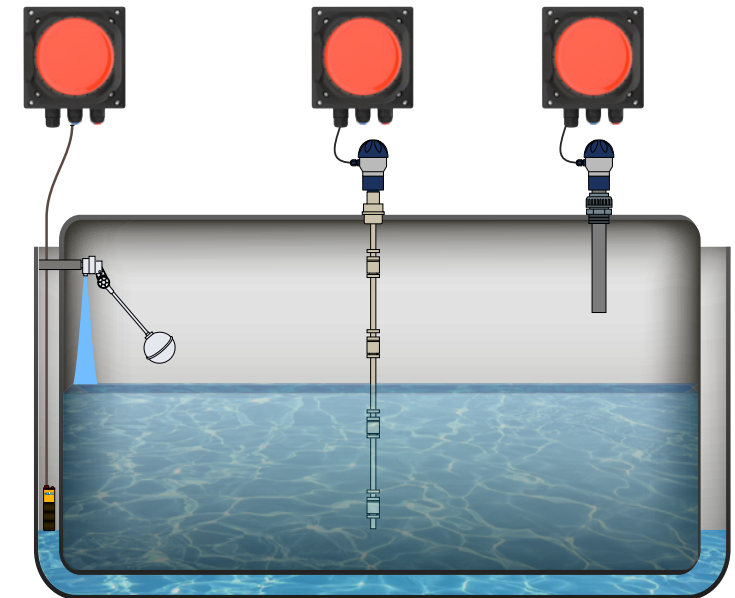- ✓ Extra Output Contact to Remote Alarm or PLC
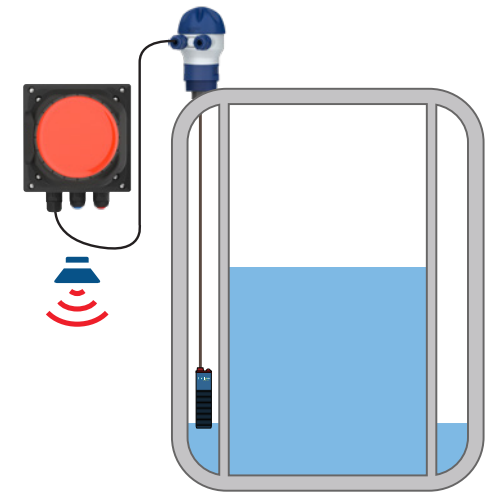
Typical Applications

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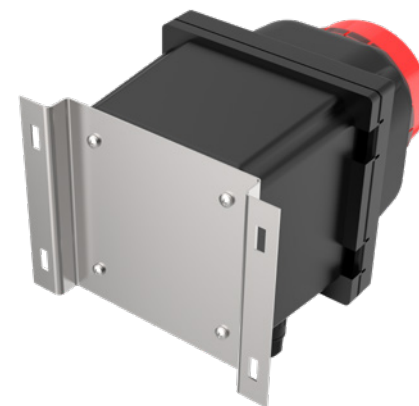- ✓ Upset Condition Notification

Specifications

- ✓ Dimensions | 7" X 5" X 4.5"
- ✓ Enclosure | NEMA 4X
- ✓ Weight | 2.1 lbs.
- ✓ 120VAC | 60Hz | 1 Amp
- ✓ Input Power | 100 - 240VAC

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.
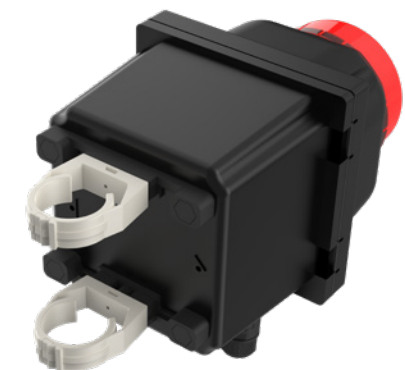
3 Easy Mounting Options

Wall Mount   **Panel Mount**   **Pole/Pipe Mount**

ICON™
PROCESS CONTROLS

Corrosion-Free
Instrumentation Equipment

Accelerating Innovation ✦ **iconprocon.com**