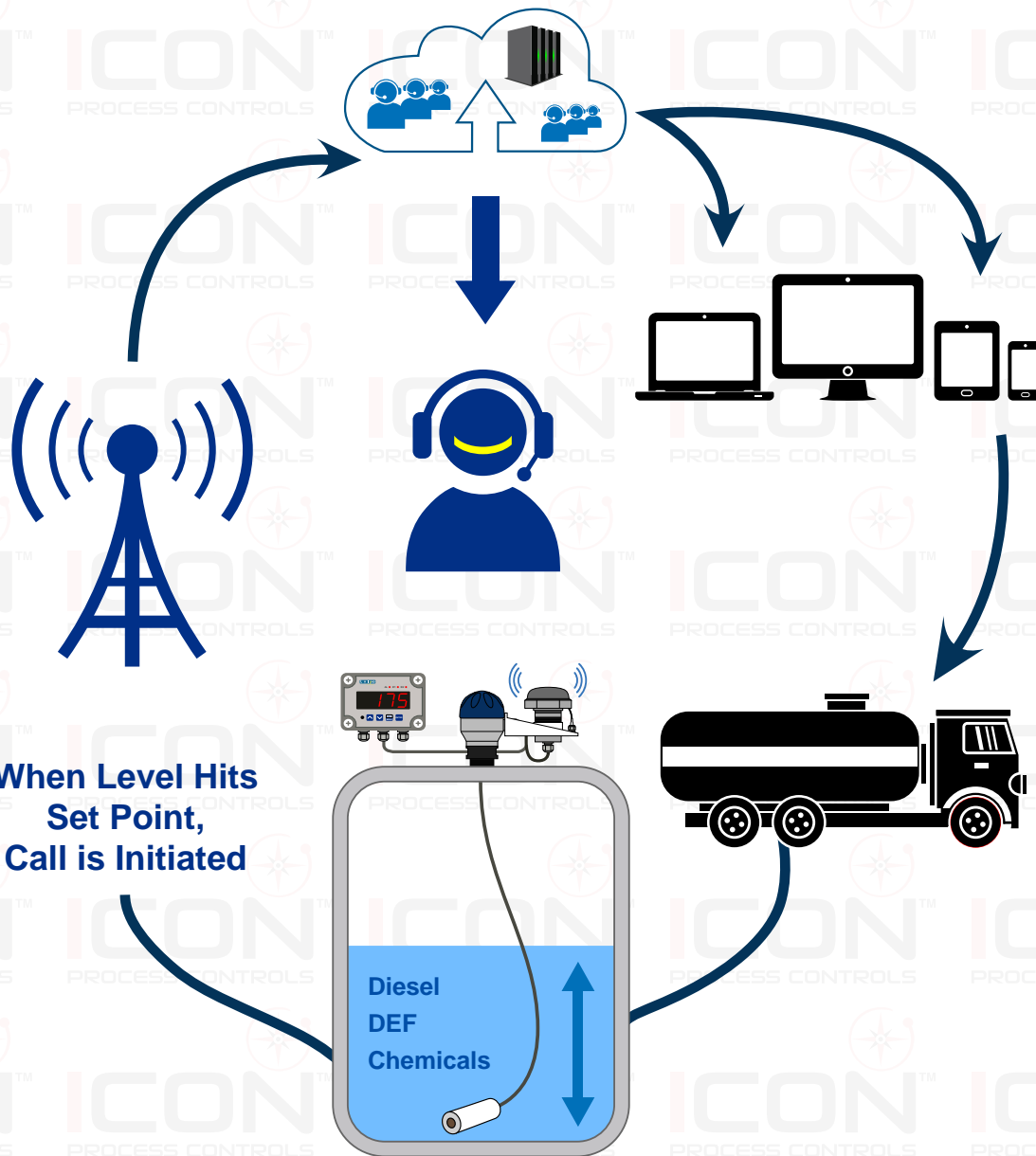


Sentinel Series Telemetry Tank Level Measurement Step by Step Instructions



When Level Hits
Set Point,
Call is Initiated

This Manual will Include Installation of the Following Products

- Sentinel Series Telemetry Tank Level Device
- 100 Series Level Sensor
- Junction Box / 2" NPT Installation Fitting
- TVL Series Level Display



Product Introduction

100 SERIES

- Works on Foam | Vapor | Turbulence
- Excellent Chemical Resistance
- All Plastic Design
- PTFE Teflon® Shielded Cable
- Integral Weight | No Floating
- FFKM Kalrez® Seals



Junction Box

- All Plastic NEMA 4X Enclosure
- 2" Threaded Polyethylene Connection
- Excellent Chemical Resistance
- Weather Resistant



Sentinel LT Series

- Battery Operated | No Programming
- Remote Tank Monitoring through Cellular Networks
- E-mail & Text Alarm Notification



LB50 Mounting Bracket



TVL SERIES

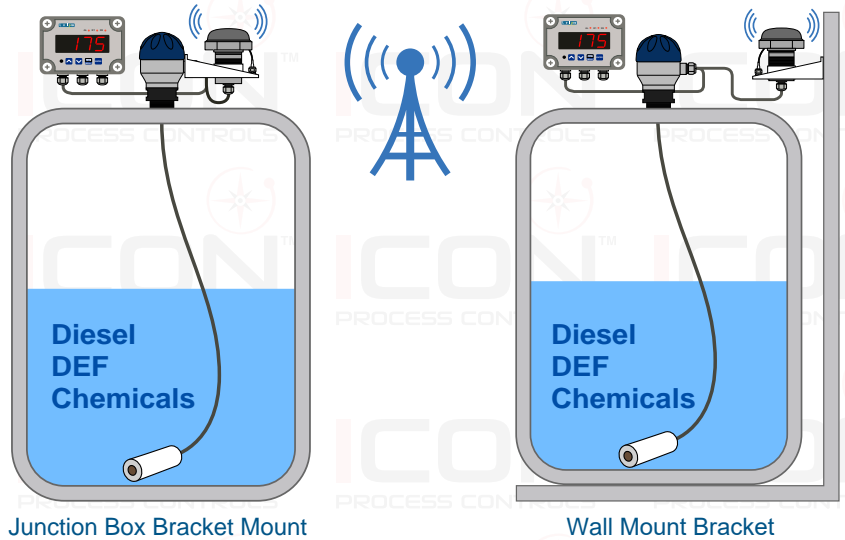
- Level Process Display | Controller
- Super Bright LED Digits
- NEMA 4X Enclosure
- Security Protection
- RIS-15 IR Remote Controller



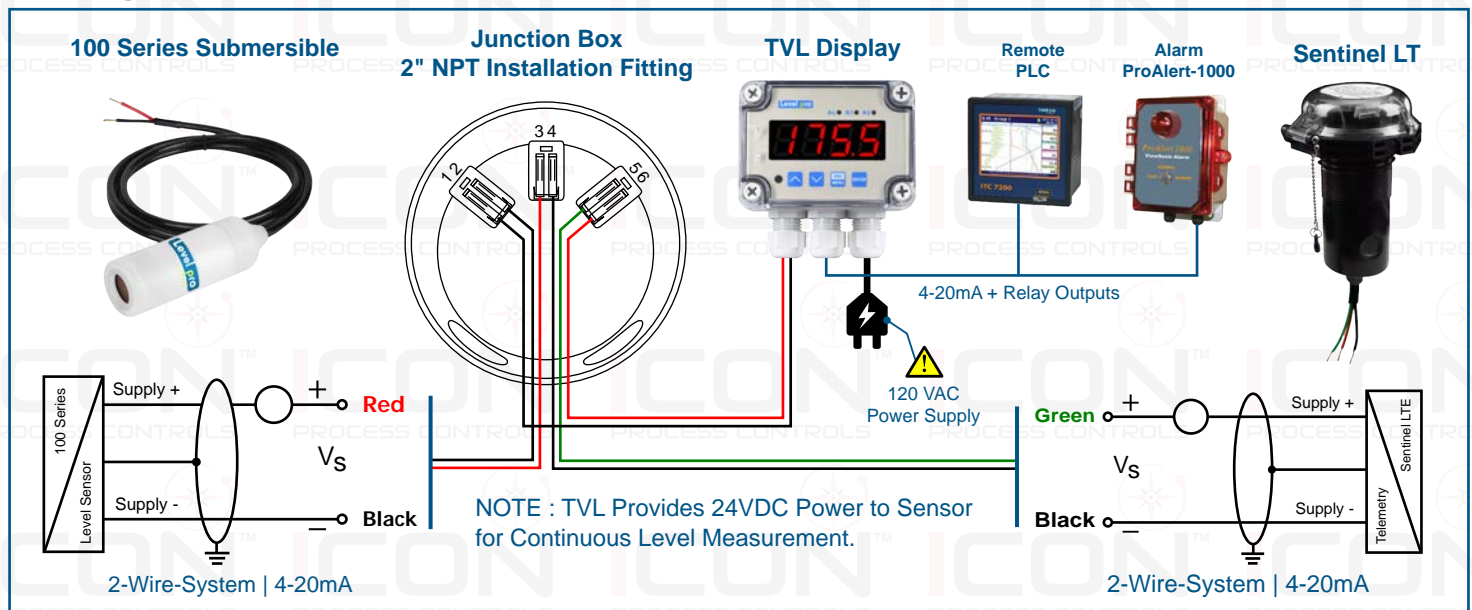
Connection Cable

100 Series Level Sensor
Junction Box
Sentinel LT Telemetry
TVL Display

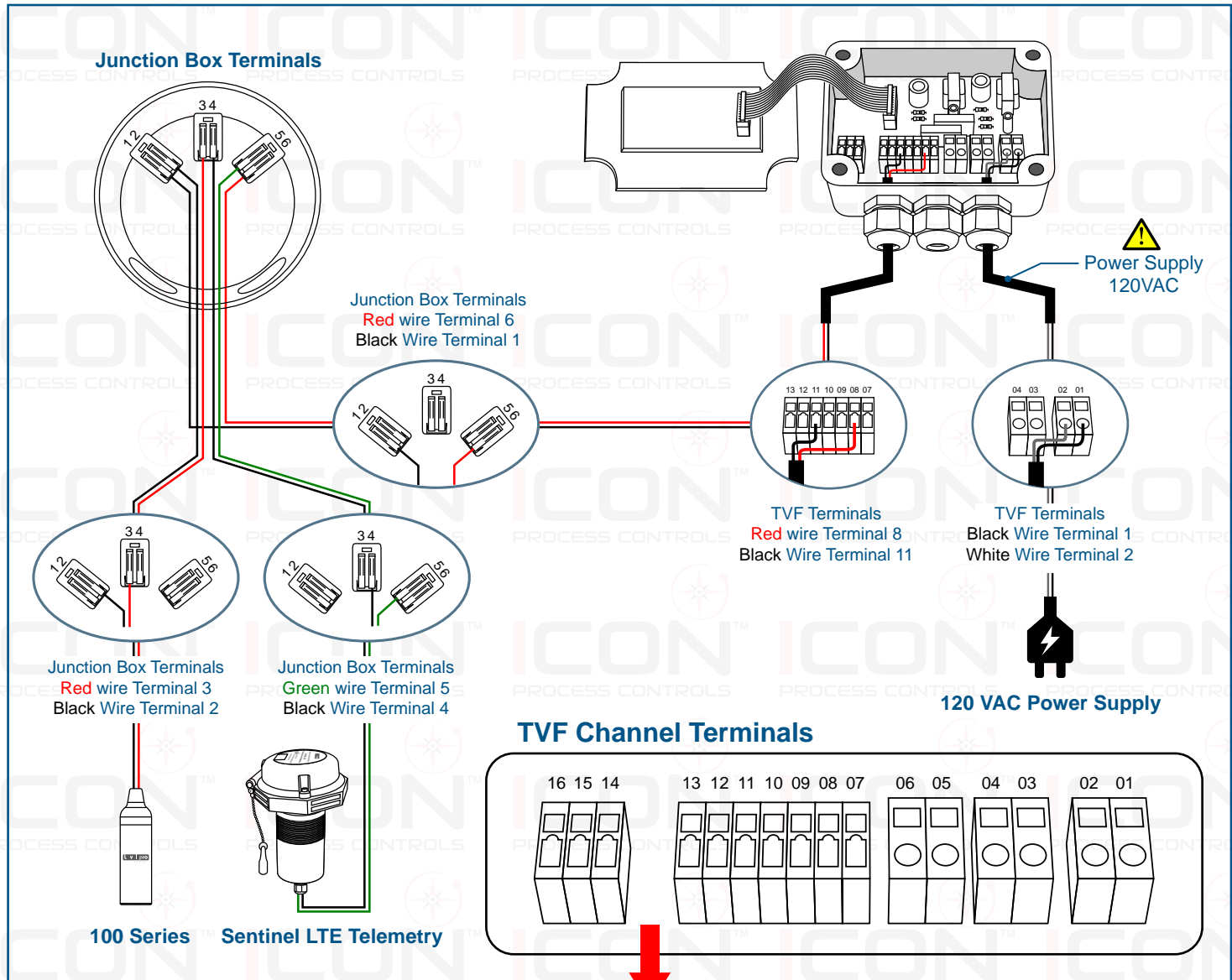
Installation Fitting on Tank



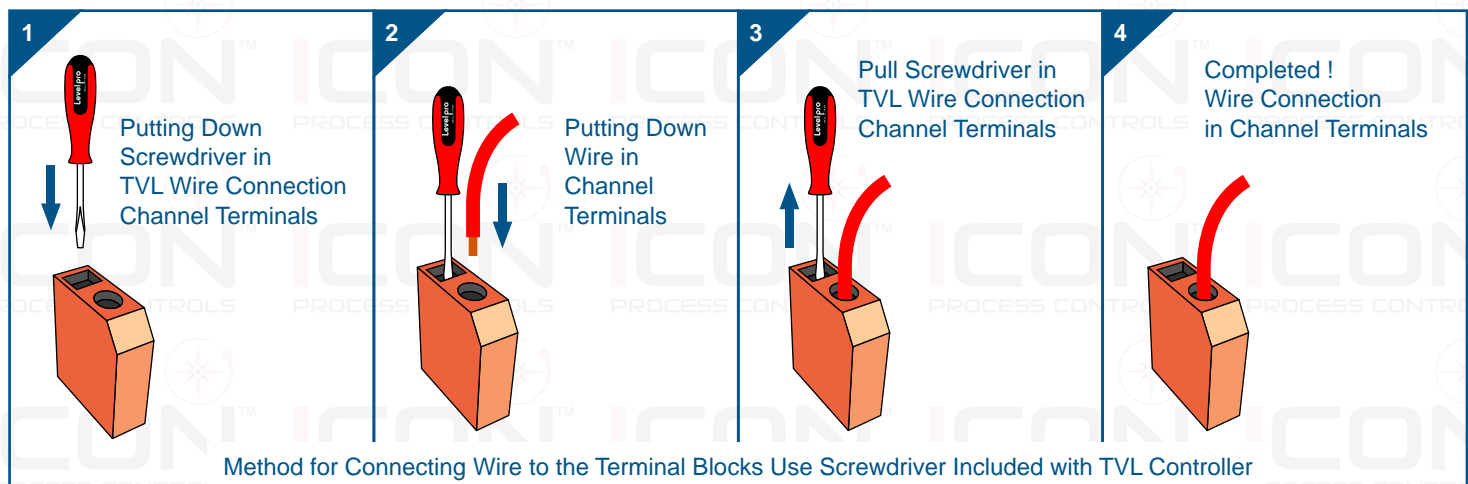
Wiring Schematic



Wiring Terminals



How to Wire Connection in TVF Channel Terminals



Step by Step Instructions

Inspect Boxes for Contents

<p>100 Series</p> <p>Submersible Level Sensor</p>	<p>Junction Box</p> <p>Junction Box + 2" Installation Fitting</p>	<p>Sentinel Telemetry Device + Mounting Bracket</p> <p>Sentinel + LB50 Mounting Bracket</p>	<p>TVL LED Display Controller</p> <p>NEMA 4X Display + 2.5mm Slot 1000V Rated Screwdriver Included</p>
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Installation Procedure | Step by Step

1

1/4 Turn

Take Junction Box and Twist Lid to Open

2

Lid is Tethered

3

100 Series Sensor

Do Not Bend Capillary Reference Tube

1. Feed 100 Series Wires, Red and Black in Junction Box
2. Tighten Cord Grip

4

100 Series Sensor

Connect 100 Series Wire
Red wire - 3 Terminal
Black wire - 2 Terminal

5

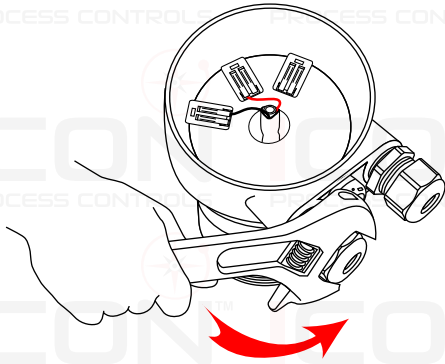
2" NPT Connection

Carefully Lower the 100 Series

6

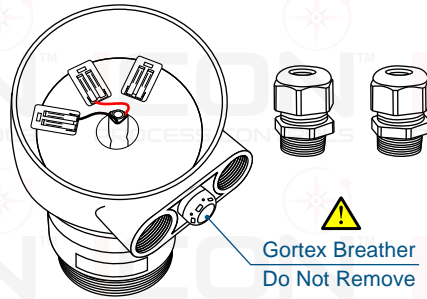
Thread Junction Box into Tank Fitting

7



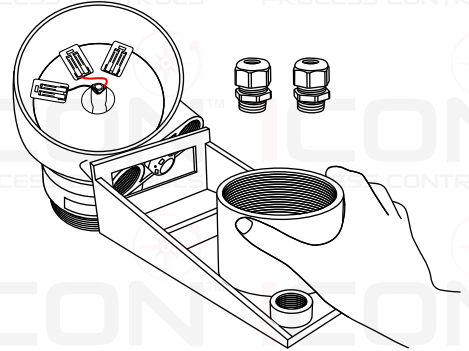
Loosen Cord Grips

8



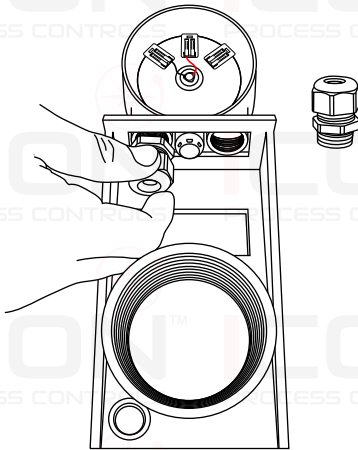
Remove Cord Grips

9



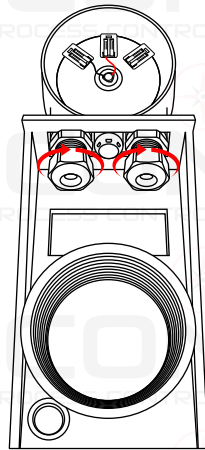
Install Mounting Bracket

10



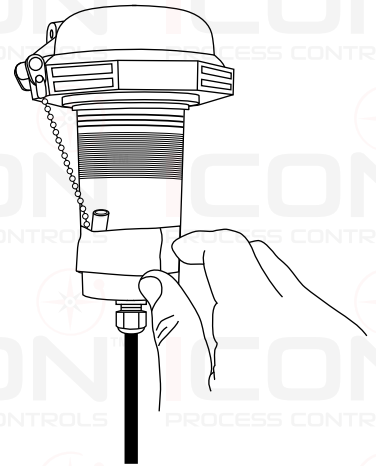
Replace Cord Grips

11



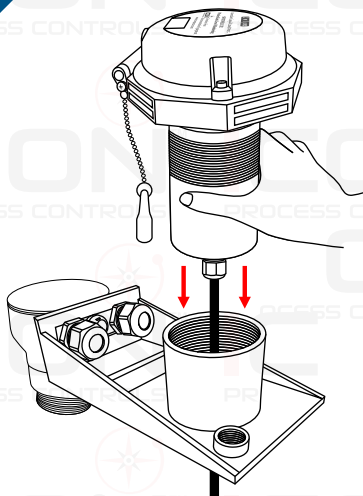
Tighten Cord Grips

12



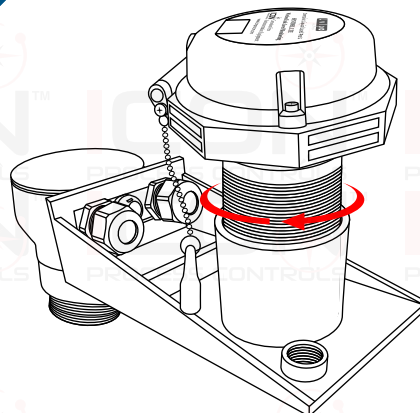
Remove Tape

13



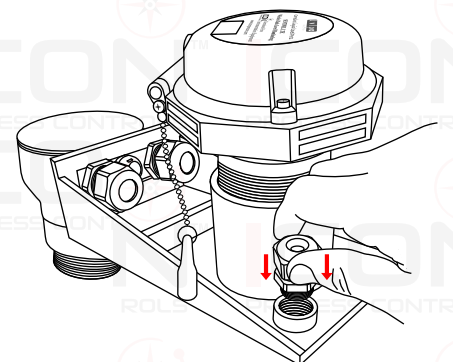
Insert Sentinel Into Bracket

14



Twist to Tighten on Mounting Bracket

15



Install Magnet Protector

16

Cut & Splice Wire to Desired Length and Feed Cable into Junction Box
Green & Black Wires

17

1. Feed Cable into Junction Box.
2. Tighten Cable Grip to Ensure a Liquid Tight Connection

18

Sentinel wire Connection in Junction Box Terminals:
Green wire Terminal 5, Black Wire Terminal 4

19

Output from Controller

1. Feed Sentinel Cable into Cord Grip
2. Tighten Cord Grip

Red Terminal 8
Black Terminal 11

1. Feed Controller Cable
2. Tighten Cord Grip

20

TVL wire Connection in Junction Box Terminals:
Red wire Terminal 6, Black Wire Terminal 1

21 Closed Junction Box Lid

Output to Controller
Red Wire Terminal 8, Black Wire Terminal 11

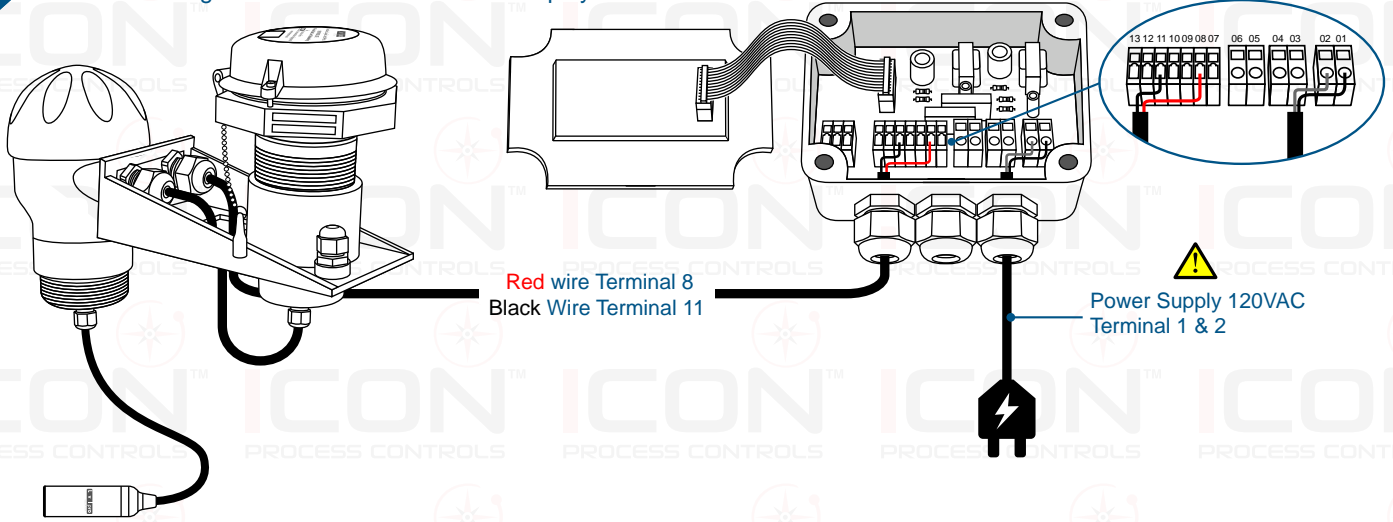
22 Open Display

23 Remove Transparent Cover

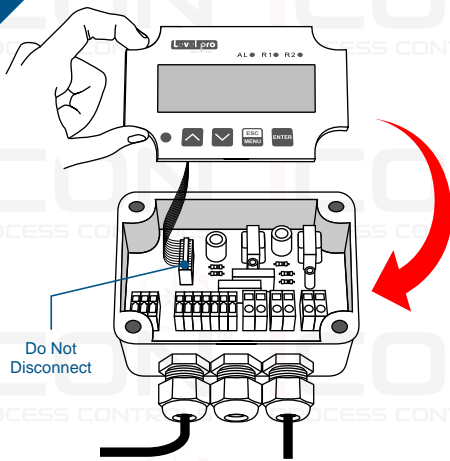
24 Pull Display Face Plate

Do Not Disconnect

25 Connecting Wire - Junction Box to TVL Display

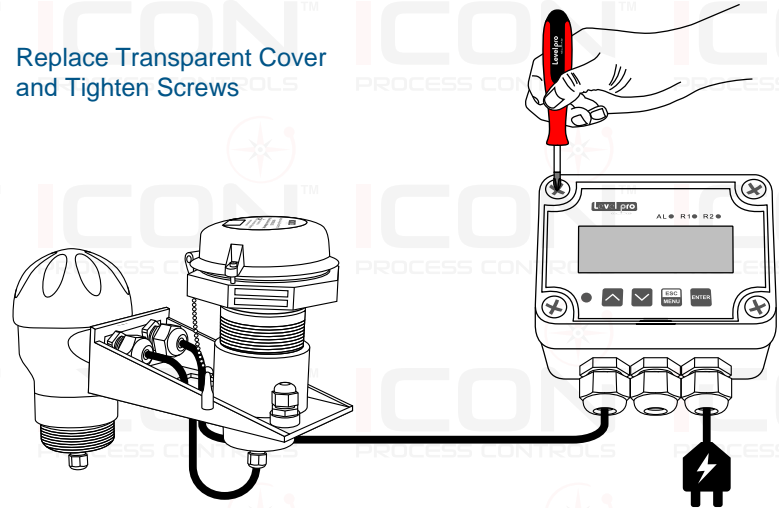


26 Install Display



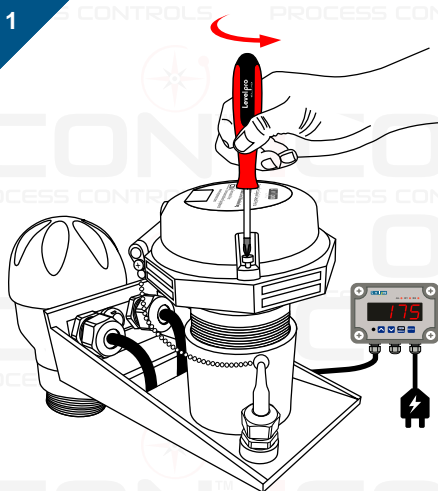
27

Replace Transparent Cover and Tighten Screws



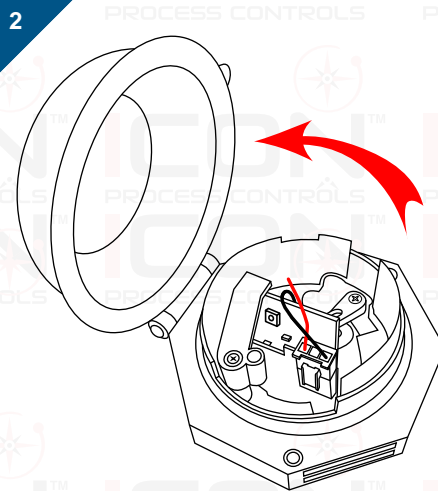
Push Button Call-Out Initiation

1



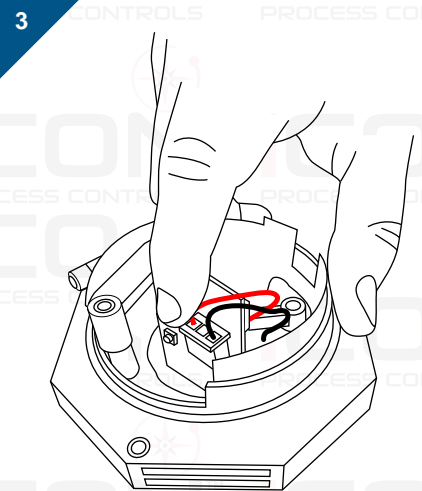
Loosen Screws

2



Open Lid

3



Press the Button - Power On

4

Slow Green Light Flashes

5

Green + Red LED's Flash Alternately

6

Green LED will go steady on

7

Closed Lid

8

Visual Light on Lid

9

Tighten Screws

10

Tank Data Transmitted to Cloud Tank Monitoring Center

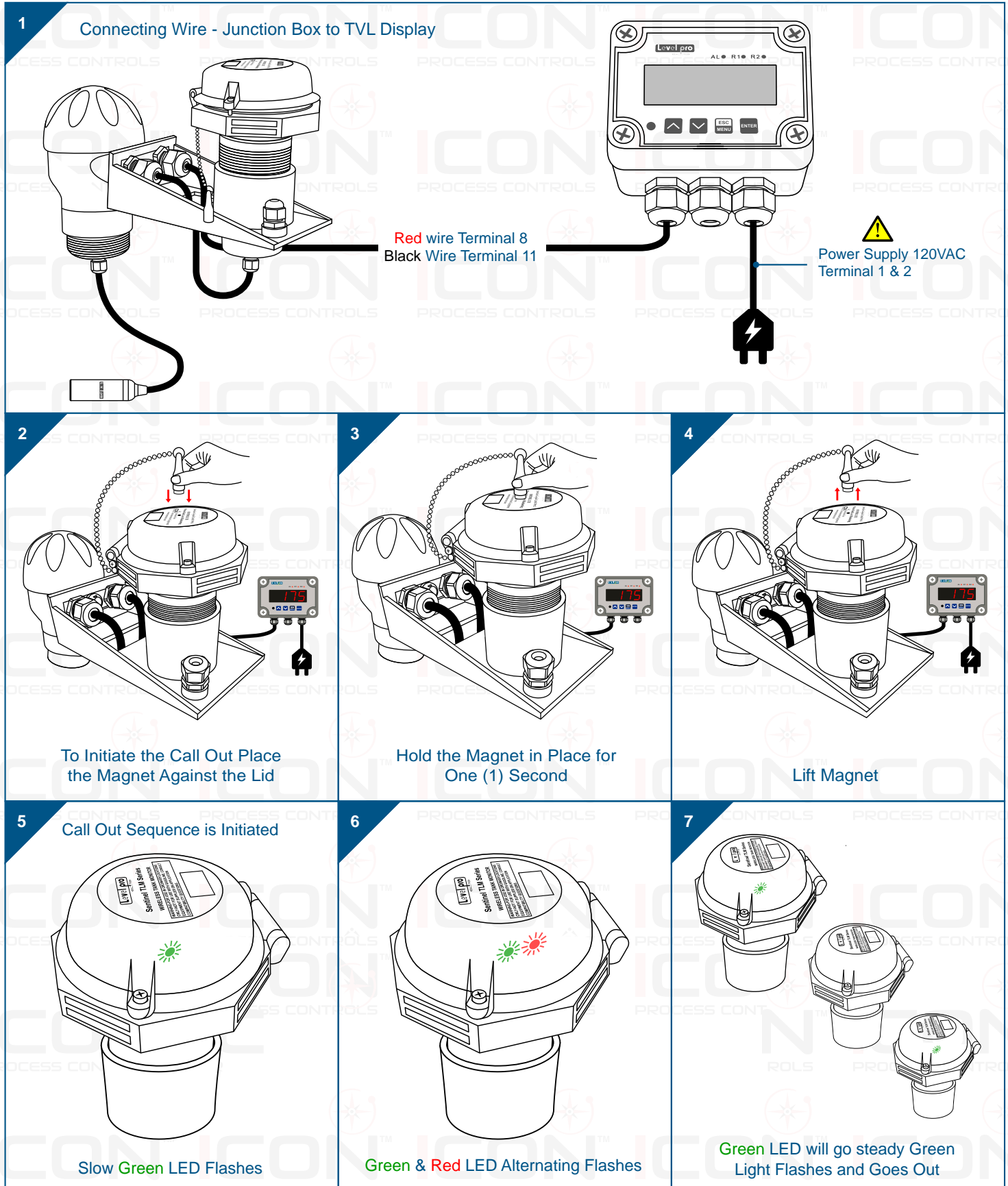
11

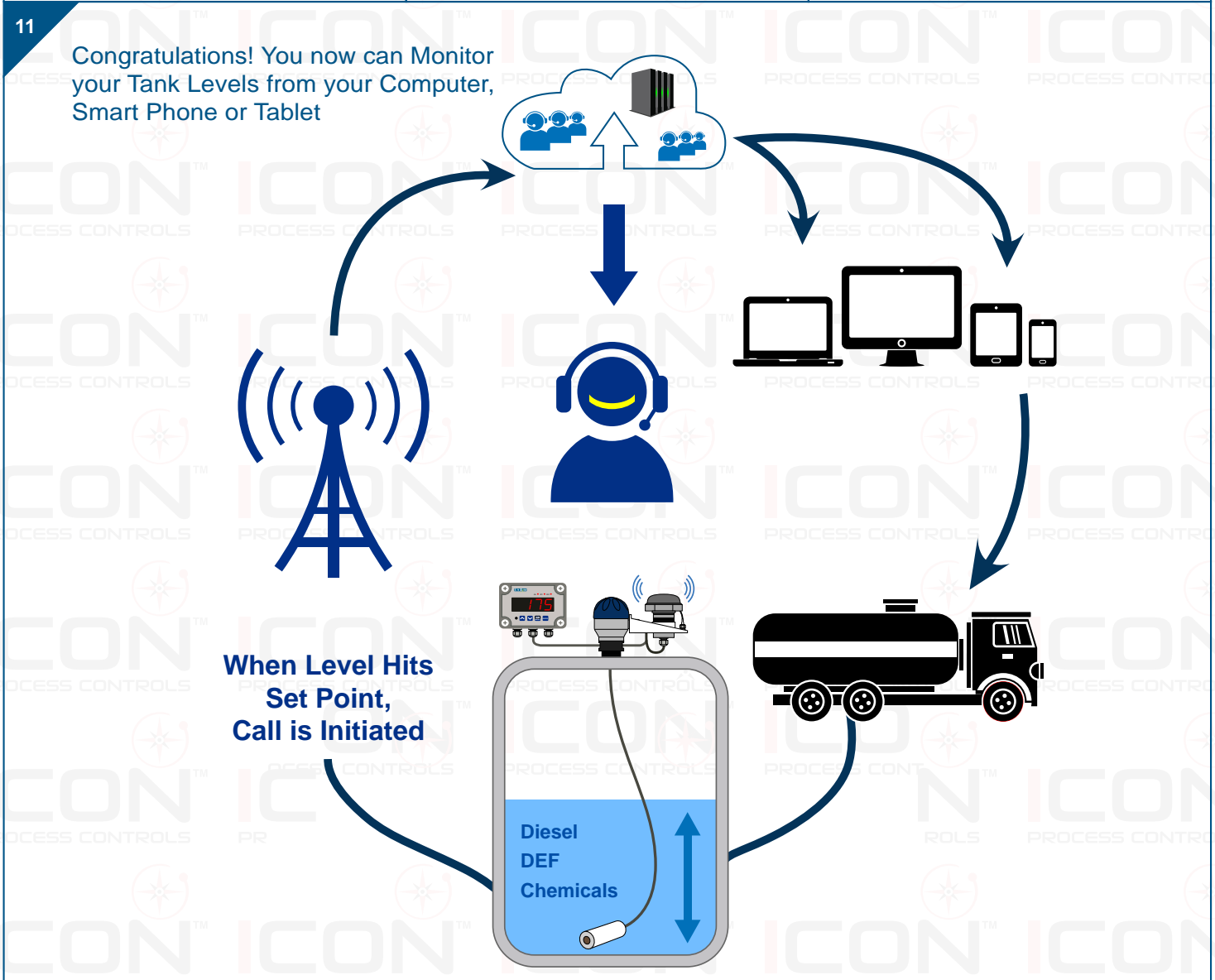
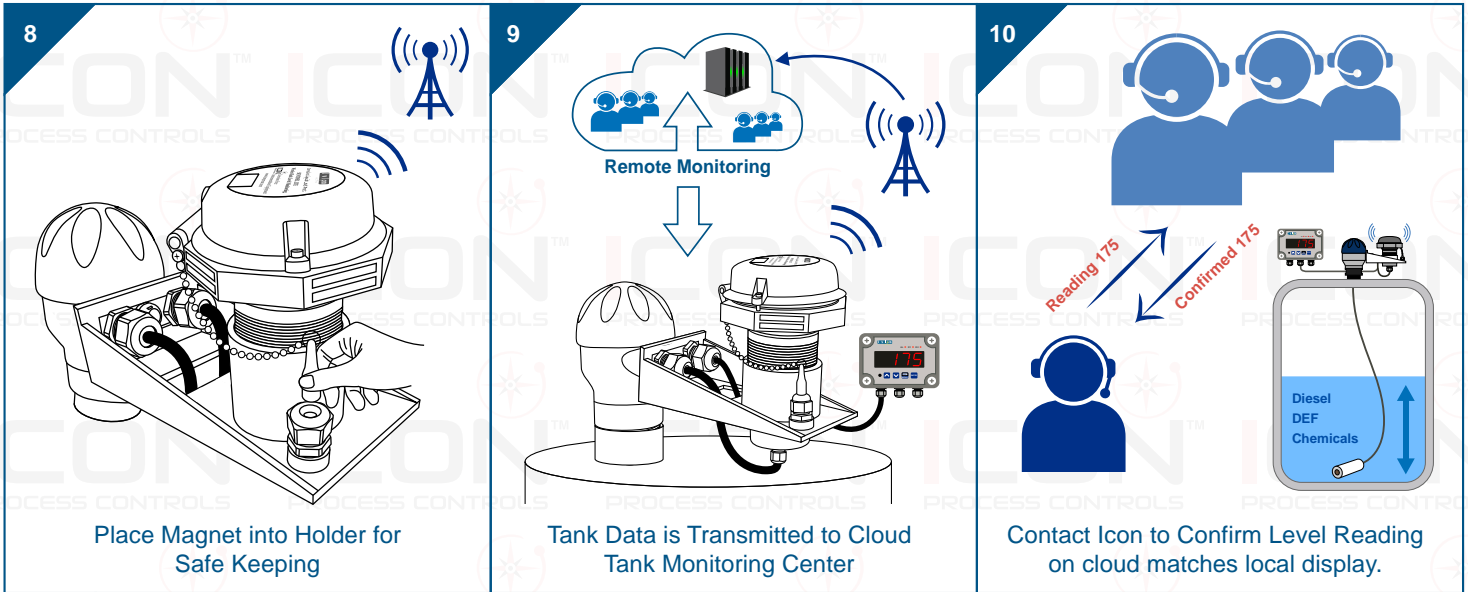
Contact Icon to Confirm Level Reading matches local display.

12

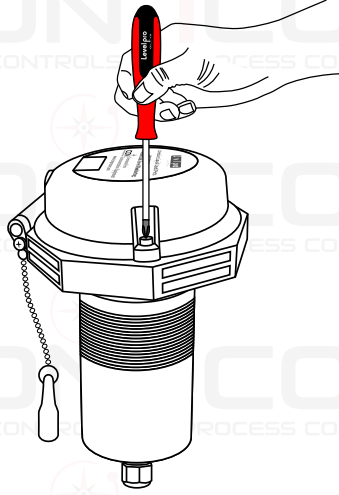
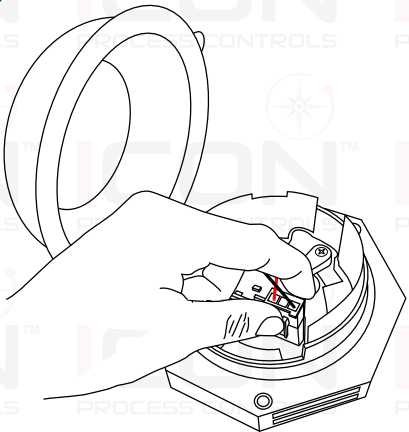
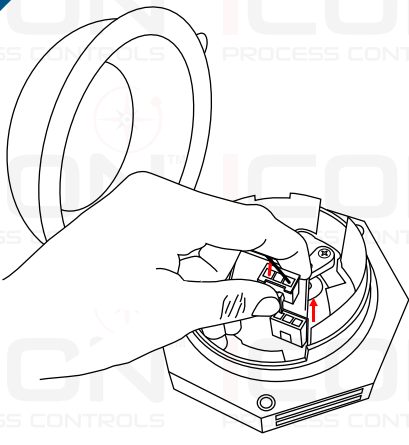
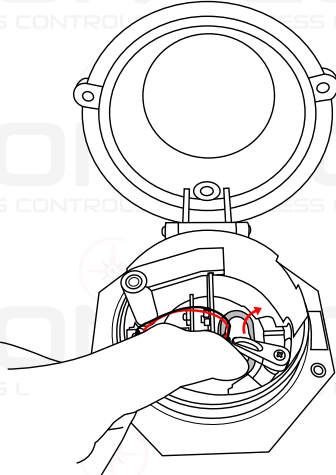
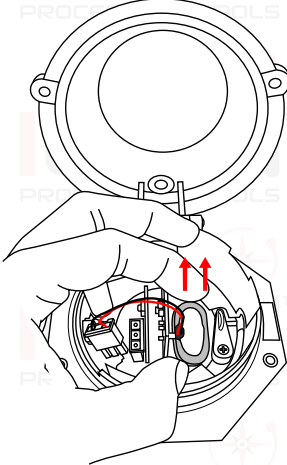
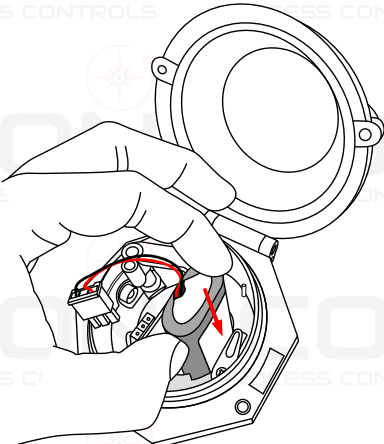
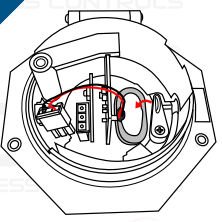
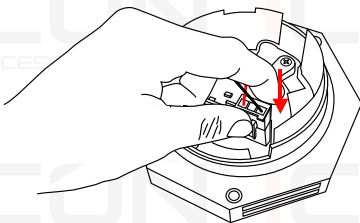
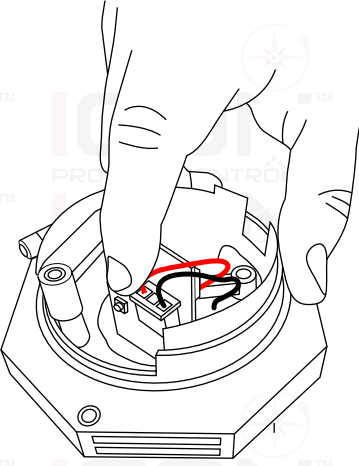
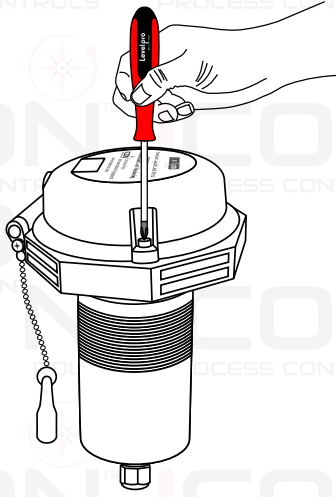
Congratulations! You now can Monitor your Tank Levels from your Computer, Smart Phone or Tablet

Magnet Call-Out Initiation





Battery Change-Out

<p>1</p>  <p>Remove Screws and Open Lid</p>	<p>2</p>  <p>Press On Connector with 2 Fingers</p>	<p>3</p>  <p>Gently Pull Connector Upwards</p>
<p>4</p>  <p>Gently Slide Retainer Clockwise</p>	<p>5</p>  <p>Gently Pull Up on Battery</p>	<p>6</p>  <p>Insert New Battery</p>
<p>7</p>  <p>Slide Retainer Counter Clockwise</p> <hr/> <p>Reconnect Plug</p> 	<p>8</p>  <p>Push Button to Initiate Call Out</p>	<p>9</p>  <p>Close Lid</p>

WARRANTY | RETURNS & LIMITATIONS

Icon Process Controls warrants to the original purchaser of its products that such products will be free from defects in materials and workmanship under normal use and service in accordance with instructions furnished by **Icon Process Controls** for a period of one year from the date of sale of such products. **Icon Process Controls** obligation under this warranty is solely and exclusively limited to the repair or replacement, at Icon's option, of the products or components, which Icon examination determines to its satisfaction to be defective in material or workmanship within the warranty period. Icon Process Controls must be notified within thirty (30) days pursuant to the instructions below of any claims of lack of conformity under this warranty. Any product repaired under this warranty will be warranted only for the remainder of the original warranty period. Any product provided as a replacement under this warranty will be warranted for the full 1 year from the data of sale.

Returns

Products cannot be returned to **Icon Process Controls** without Icon's prior authorization. To return a product that is thought to be defective please submit a customer return (MRA) request form and follow the instructions therein. All warranty and non-warranty product returns to **Icon Process Controls** must be shipped prepaid and insured. Icon will not be responsible for any products lost or damaged in shipment.

Limitations

This Warranty Does Not Apply To Products Which

- 1) Are beyond the warranty period or are products for which the original purchaser does not follow the warranty procedures outlined above;
- 2) Have been subjected to electrical, mechanical or chemical damage due to improper, accidental or negligent use;
- 3) Have been modified or altered.
- 4) Anyone other than service personnel authorized by Icon have attempted to repair;
- 5) Have been involved in accidents or natural disasters; or
- 6) Are damaged during return shipment to Icon.

Icon Process Controls Reserves the Right to Unilaterally Waive this Warranty and Dispose of Any Product Returned to Where

- 1) there is evidence of a potentially hazardous material present with the product; or
- 2) the product has remained unclaimed at Levelpro for more than 30 days after Icon Process Controls has dutifully requested disposition. This warranty contains the sole express warranty made by Levelpro in connection with its products.

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