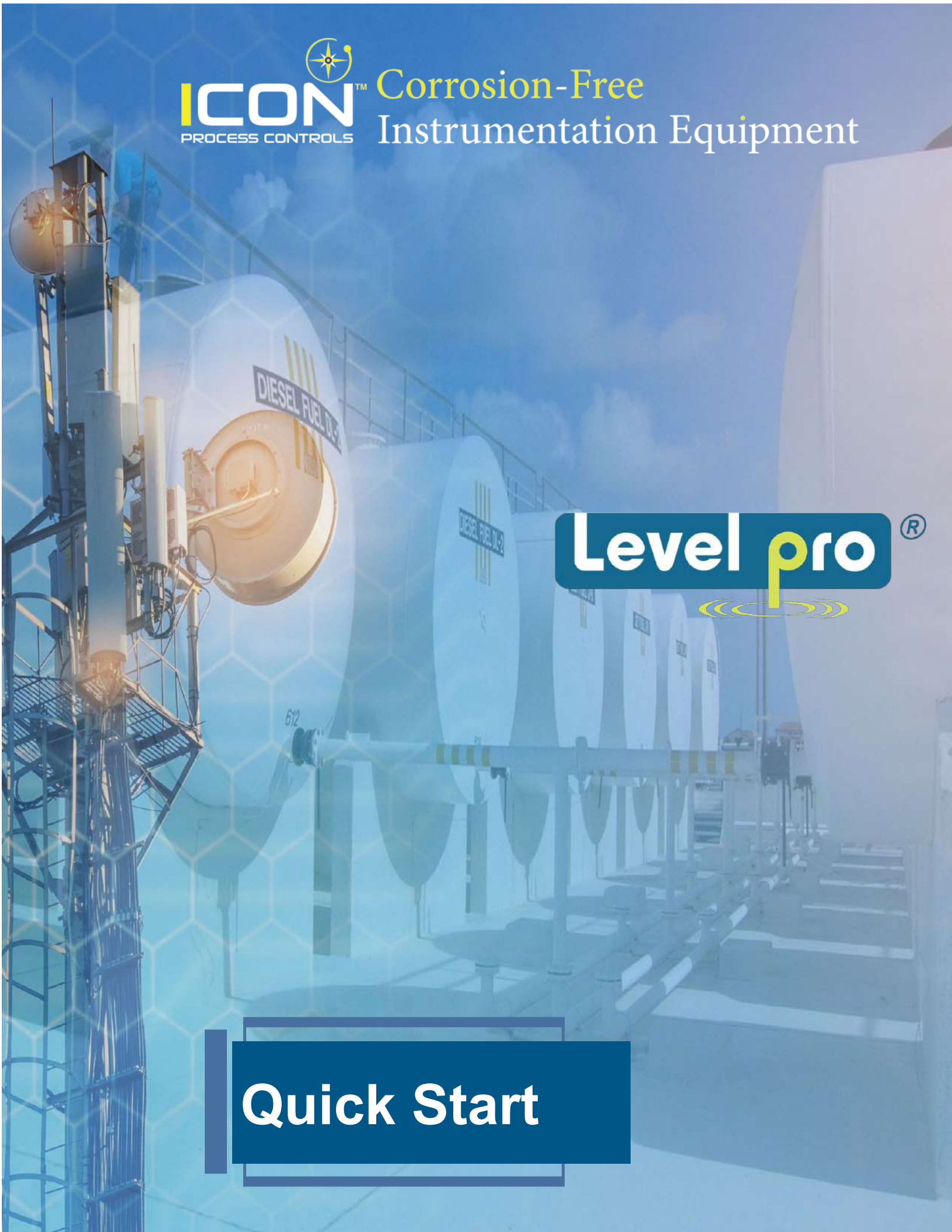
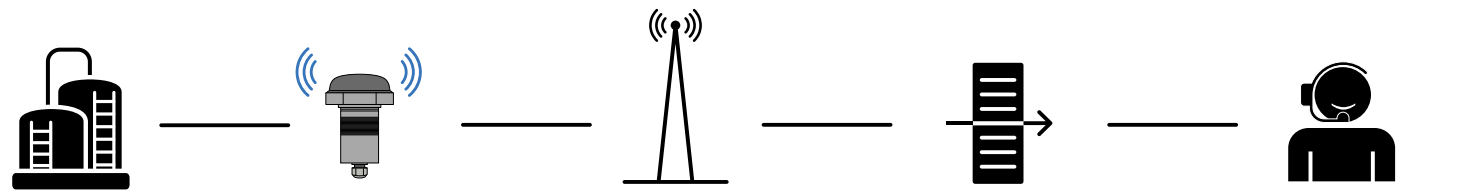
ICON™ PROCESS CONTROLS

Corrosion-Free
Instrumentation Equipment



Level pro®

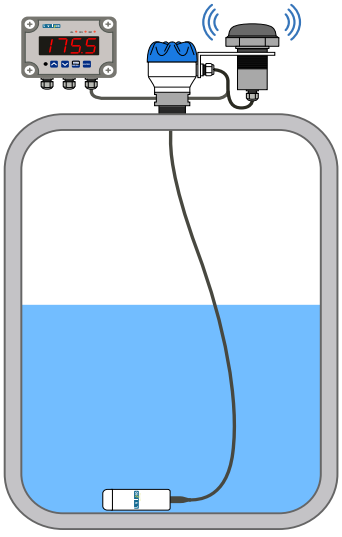
Quick Start


TANK | SUMP
SENTINEL
CELLULAR NETWORK
CLOUD ONLINE
INVENTORY MANAGER

Sentinel Series LT | Telemetry

Tank | Sump Liquid Level Monitoring

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



Sentinel with Bracket

The Sentinel Series Telemetry is a Cellular Tank or Sump Level Monitoring system that delivers reliable daily measurements that are both scheduled and event driven. Remote monitoring with the Sentinel is exceptionally flexible, eliminating the hassles of network infrastructures and Internet service. The Sentinel connects via a wireless signal to local cellular networks and transmits Level, Alarms, Battery Status, Rate of Consumption History, Critical High or Low Level Alerts and Signal Strength, all of which are available through th Cloud Based Website. The Sentinel online provides you with important readily at your fingertips Computer, Tablet or Smart Phone

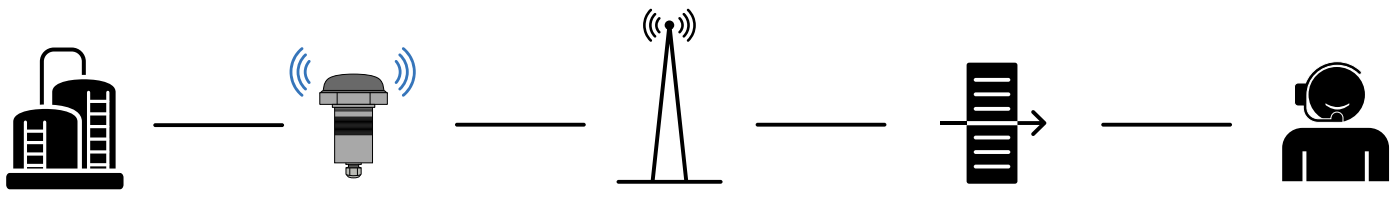
FEATURES

- 24/7 access to data through Cloud Based Excellent
- Battery Life
- Variety of Alarm Trigger Points
- Mobile Ready Access
- NEMA 4X Enclosure
- Low Cost LTE Cellular Technology
- Access Data via PC | Laptop | Smart phone | Tablet
- Eliminate Costly Emergency Fills | Pump-Outs

SPECIFICATIONS

Wireless Communication	GSM Digital Wireless Radio
RF Approval	FCC part 15B Approved
Frequency Bands	GSM 850 | 900 MHz WLAN
Output Voltage	Nominally 14/24VDC
Output Current	4 - 20mA
Enclosure	NEMA 4X | UL Approved
LAN/WAN	300ft. Line of Sight
Lithim Battery	Replaceable Lithium Ion Batteries (CR-123A)
Body Material	CPVC or PP
Operating Temperature	-13°F - 158°F | -25°C - 70°C

HOW IT WORKS



100 SERIES
Submersible Level Transmitter

Industry's Most Reliable Line of Level Sensors Designed Specifically for Corrosive Liquid Applications

PVC | PP | PVDF | PTFE | 316SS

Seals: FFKM | FPM

- **Suitable For Foam | Vapor | Turbulence | Condensate**
- **Exceptional Chemical Resistance**
- **PTFE Teflon Jacketed Cable**

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

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

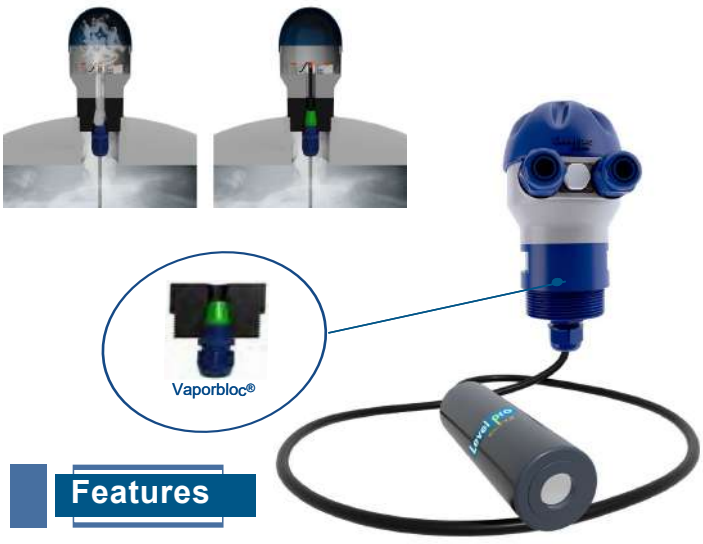
Features

- Exceptional Chemical Resistance
- Ceramic Sensing Diaphragm
- High Accuracy
- Non Clogging Design
- No Programming Required
- Integral Weight | No Floating
- No Dead Band

Displays

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

LP Submersible Junction Box



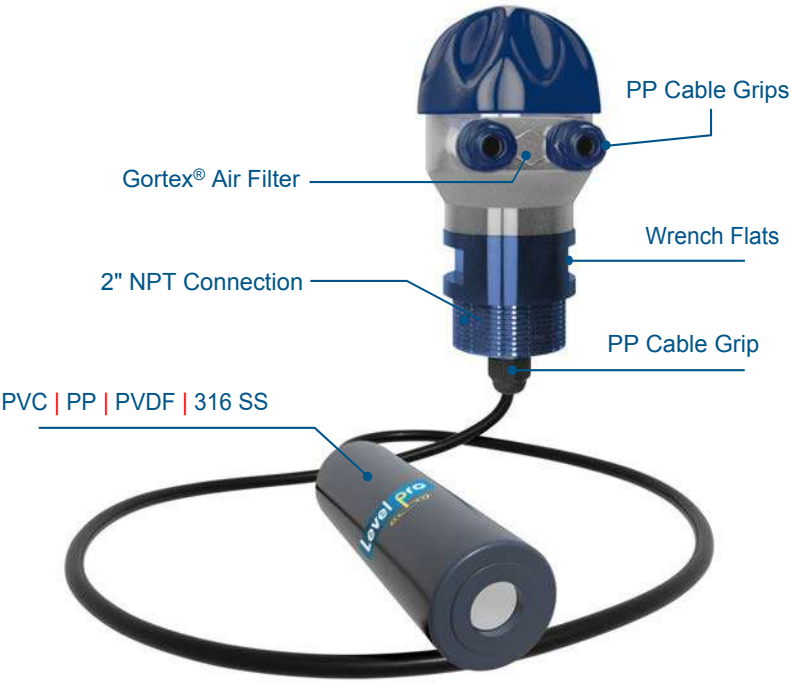
Features

- Patent Pending Vaporbloc® Technology
- Corrosion Resistant NEMA 4X
- 2" NPT Tank Connection

Uplink Tank Level
Junction Box

- New Vaporbloc® Technology
- NEMA 4X Enclosure
- Tool Free Wiring Terminals
- Excellent Corrosion Resistance

Self Draining Cover - No Pooling of Corrosive Liquids

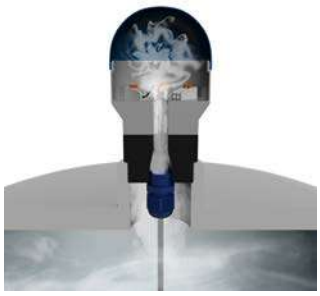


Features

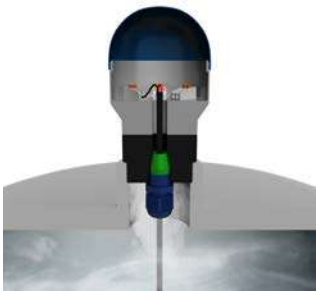
- Excellent Chemical Resistance
- All Plastic NEMA 4X Enclosure
- Vaporbloc® Gas Barrier
- 2" Threaded Connection
- Gortex® Air Breather Included
- Chemical Resistant PP Cord Grips

Vaporbloc® Technology

- Blocks out Corrosive Chemical Fumes
- Pressure Tested to 75 psi
- Protects Internal Wiring Connections
- Eliminates Corrosive Fumes Out-gassing into Environment



Before



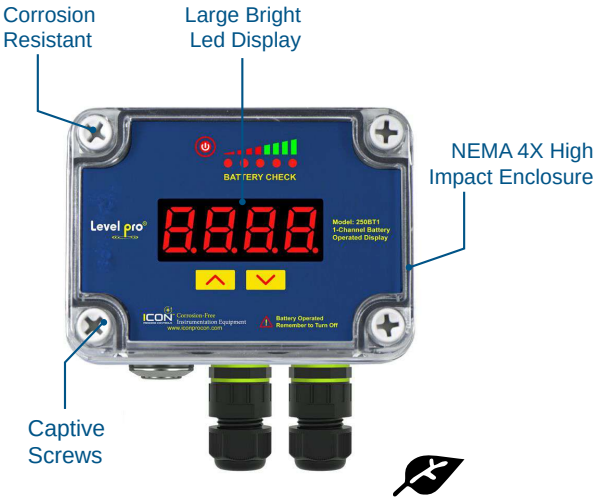
After

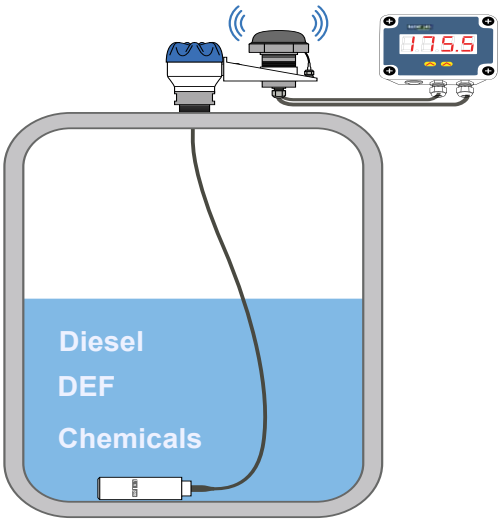
Patent Pending

250B SERIES

Battery Operated Level Display

- Super Bright LED Digits
- Battery Operated
- No External Power Required





Features

- Powers Submersible Sensor
- Battery Powered
- NEMA 4X Enclosure
- Loop Powered | 4-20mA
- No Internal Wiring Required
- Battery Strength Indicator
- Push-Button Activated Display

Part Number	Input	mAh
TVL-550-1821	1 | 4-20mA	4000
TVL-550-1829	2 | 4-20mA	4000
TVL-550-1821	3 | 4-20mA	4000
TVL-550-1829	4 | 4-20mA	8000
TVL-550-1821	6 | 4-20mA	8000
TVL-550-1829	8 | 4-20mA	8000

Specifications

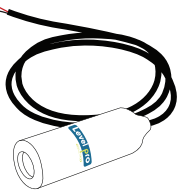
Power supply	LisoCl2 High Density Battery | 4000mAh | 8000mAh
Display	LED | 4 x 20 mm High | Red
Displayed values	-999 - +9999
Input	4-20mA | 2 Wires
Accuracy	0.1% @ 25°C One Digit
Stability	50 ppm | °C
Operating temp	-40 - 158°F | (-40 - 70°C)
Storage temp	-40 - 158°F | (-40 - 70°C)
Protection class	NEMA 4X | IP67
Case	Polycarbonate
Dimensions (WxHxD)	110 x 105 x 67 mm

Sentinel Tank Level Measurement
Installation Manual

Product Information

Submersible Level Sensor

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

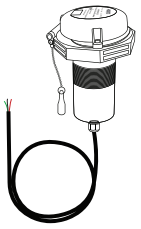


Junction Box

- All Plastic NEMA 4X Enclosure
- Vaporbloc® - Protects against Fumes
- 2" Threaded Connection
- Excellent Chemical Resistance
- Weather Resistant

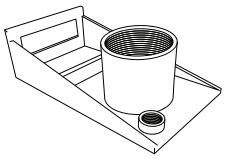
Sentinel Series

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



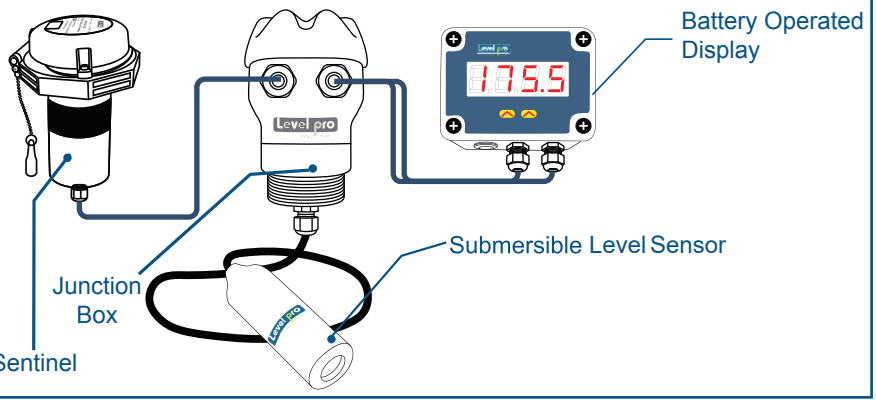
Mounting Bracket

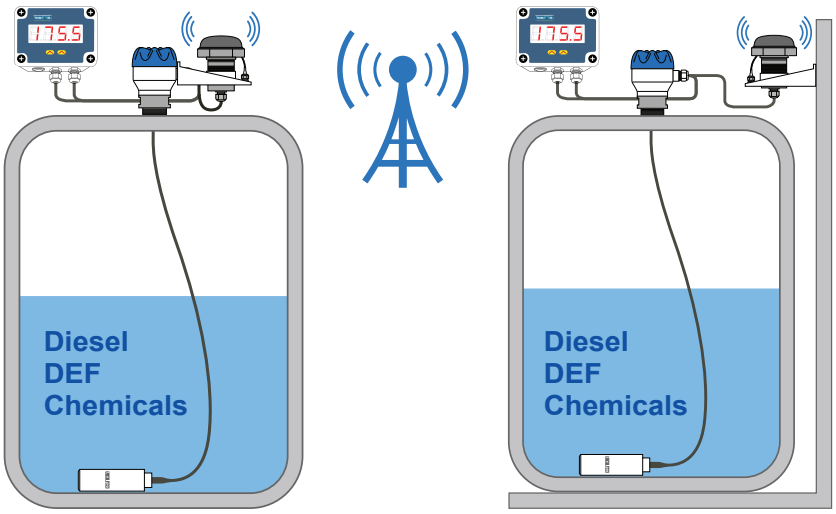
- Direct Mount to JB
- Wall Mount
- Holder for Magnet
- Superior Chemical & Weather Resistance



Junction Box

- Level Process Display
- Battery Operated
- Super Bright LED Digits
- NEMA 4X Enclosure
- Security Protection



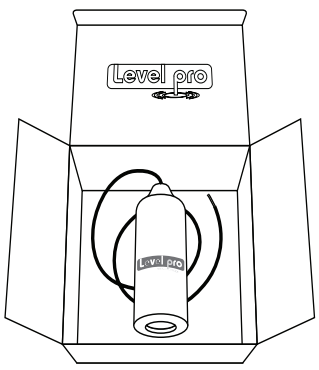


Junction Box Bracket Mount

Wall Bracket Mount

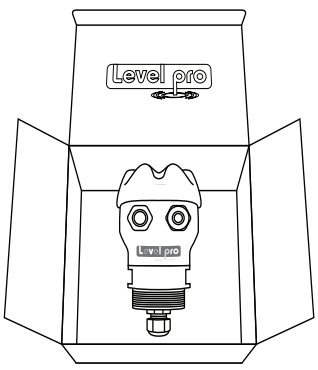
Product Inspection

Submersible Sensor



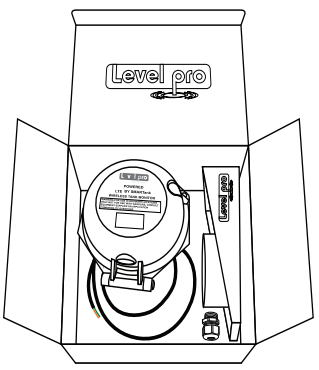
Submersible Level Sensor

Junction Box



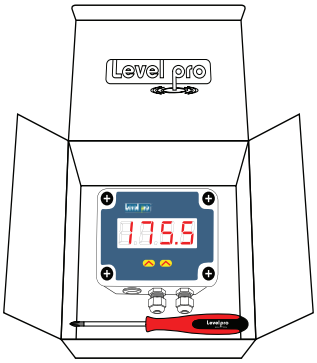
Junction Box

Uplink Telemetry Device + Mounting Bracket



Sentinel + Mounting Bracket

Level Display



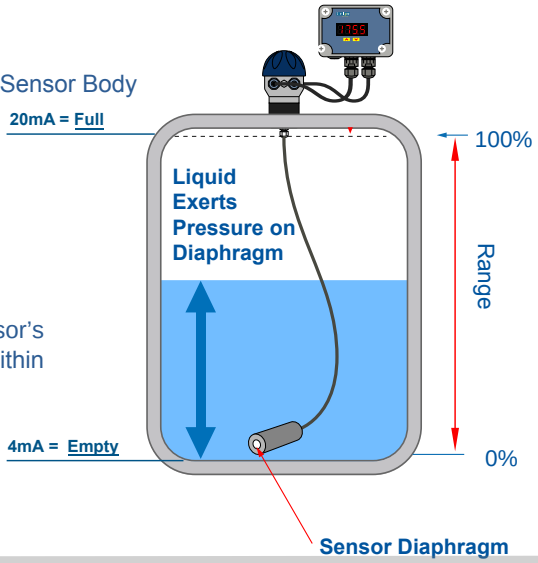
Display + Screwdriver

Understanding Level Measurement

Submersible Sensors

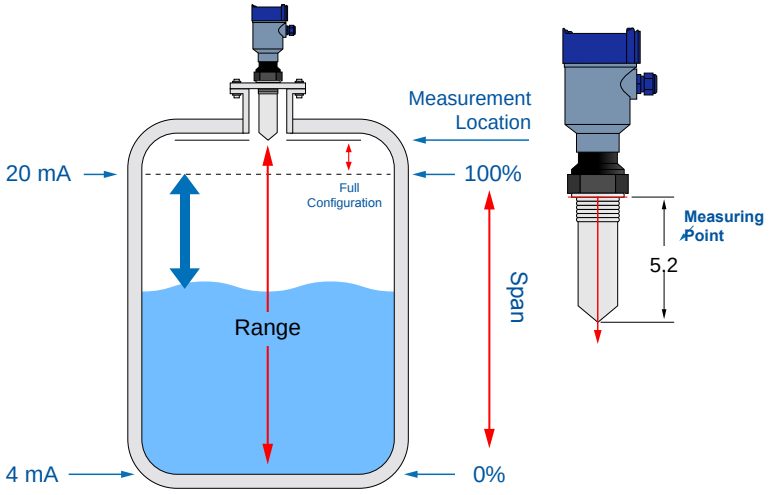
All Submersible Sensors have a Calibrated Range that is Based on H_2O that has a Specific Gravity or Density = 1

1. **Range Value |** The Overall Measuring Distance that the Sensor has been calibrated to by the Factory - The Range will be Located on the Sensor Body
2. **Empty :** The Pressure being exerted on from the sensor diaphragm at Lowest Point Normally this is when the Tank is Empty within the Tank
   a) **Empty** = 4mA setting.
3. **Full |** The Pressure being exerted on the sensor's diaphragm at the highest point **Liquid Level** within the Tank
   a) Full = 20mA setting.



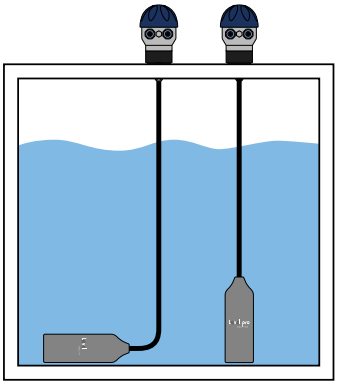
Radar Sensors

1. **Range Value |** The Distance from the sensor's measurement point to the bottom of the Tank
2. **Empty Configuration** it the distance from the sensor to the Lowest or Empty Point within the Tank
   a) **Empty Configuration** = **4mA** setting.
   b) The **Range** and **Empty Configuration** values are normally the same for Flat Bottom Tanks
3. **Full Configuration |** The Distance from the sensor's measurement point to the **Highest Liquid Level** in the Tank
   a) Full Configuration = 20mA setting.



When Using Radar The Uplink Must Be Set to 60 Second Start Time.

Getting Started



- Submersible Pressure Sensors are designed to be completely submersed within the liquid. The transmitters can rest along the bottom of the tank or be suspended at any desired level within the tank.

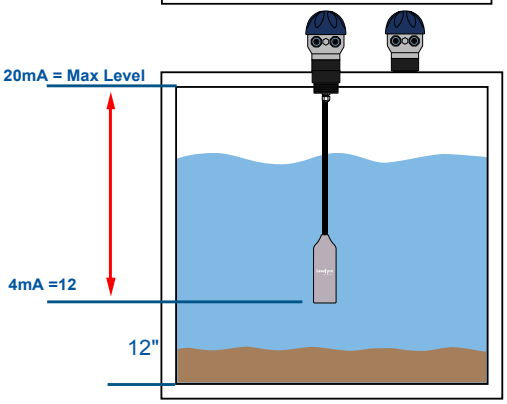
- Please note that the physical location of the level transmitter will indicate the lowest level of measurement within the tank.

  ex: Positioning the transmitter 12" from the bottom of the tank, then the lowest reading of liquid will be 12" from the bottom.

When the Liquid To Be Measured is Not H_2O the New Range of the Sensor Needs to be Determined.

To Achieve this Simply Divide the Range of the Sensor Body by the Specific Gravity of the Liquid

SENSOR RANGE / S.G = NEW RANGE

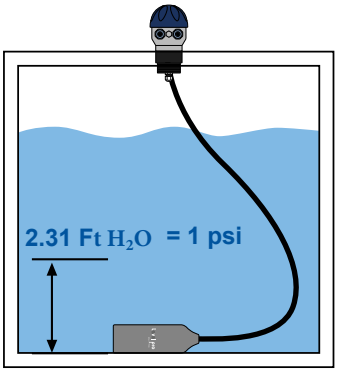


The Importance of the Liquids Specified Gravity

The S.G of a Liquid has a Direct Effect on the Sensors Output when Measuring the Height of the Liquid

Liquids with a SG < 1.0 are Lighter than H_2O i.e. Oil

Liquids with a SG > 1.0 are Heavier than H_2O i.e. Sulfuric Acid

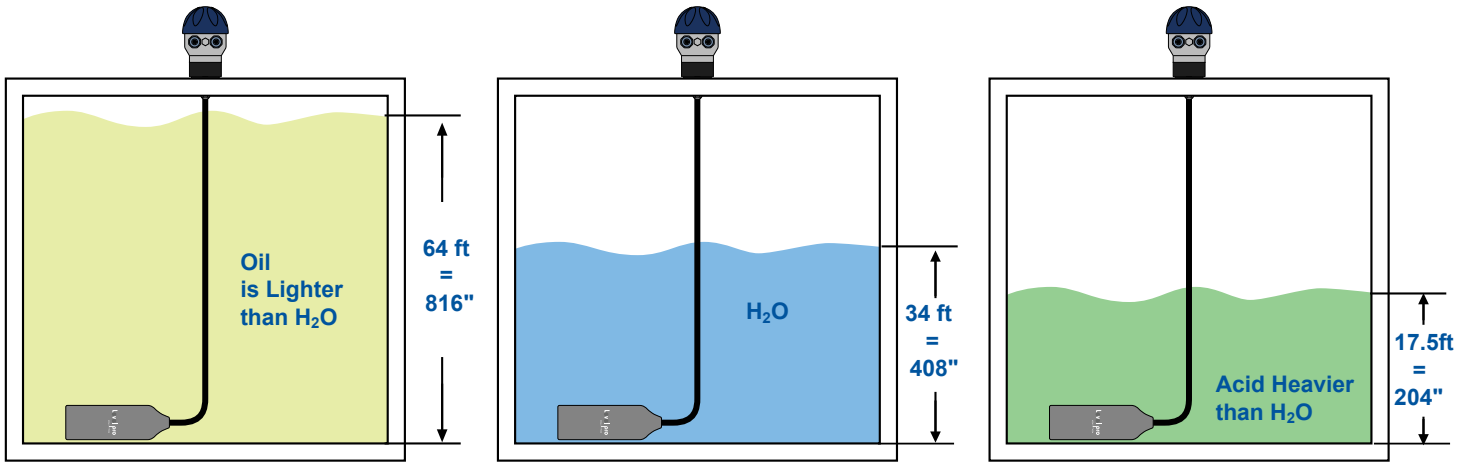


H_2O has a SG = 1.0.

S.G <1.0 Requires More Liquid to Equal the Same Pressure or Height as with H_2O.

S.G >1.0 Requires Less Liquid to Equal the Same Pressure or Height as with H_2O.

Here are some examples of how the submersible sensor range changes when submersed into liquids with different Specific Gravities



Specific Gravity = 0.5

Tank # 1

Specific Gravity = 1

Tank # 2

Specific Gravity = 2

Tank # 2

Calculating Max Range of Sensor

Lets assume a the Calibrated Range of the Submersible Sensor is 34' or 408. The range is always referenced H_2O which has a Specific Gravity (Density) equal to 1

Calibrated Range/S.G = Liquid Level Measurement Range 34/1 = 34' or 408/1 = Liquid Level Range = 408"

Example 1.

The Liquid in a Tank # 1 has a S.G = 0.5 which is lighter than that of H_2O

To determine the NEW Range of the sensor simply divide the H_2O range (34') by the S.G of the liquid you are now going to measure. S.G. = 0.5

34/0.5 = 64 ft or 816 inches

Since the Oil is a lighter substance than H_2O the New Measuring Range of the Sensor has increased and and is now 64' or 816"

Example 2.

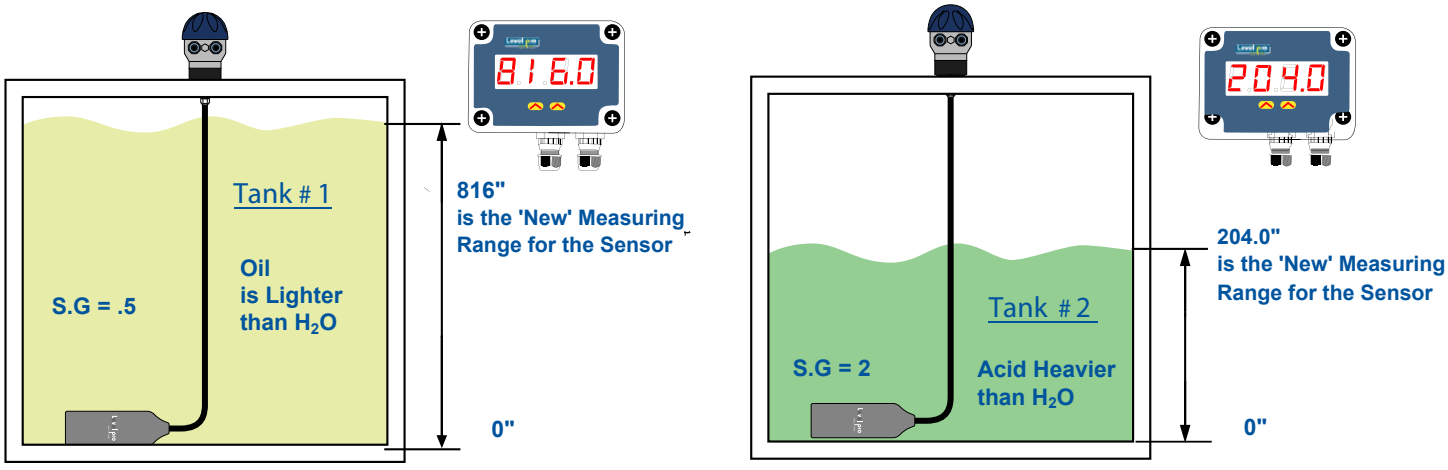
The Liquid in Tank # 3 has a S.G = 2 which is heavier than H_2O

The 34' Sensor is now going to be installed into a tank of Acid with a S.G = 2

Range/S.G = New Measuring Range

34/2 =17.5 ft or 204 inches

The liquid is Heavier than H_2O so the New Overall Sensor Range Has been reduced to 17.5 ft or 204 inches



Oil S.G = 0.5	Sensor Signal	Display Reading
Tank 1 | Empty	4.0mA	0"
Tank 1 | Full	20.0mA	816"
Acid S.G = 2.0	**Sensor Signal**	**Display Reading**
Tank 2 | Empty	4.0mA	0"
Tank 2 | Full	20.0mA	204"

Installation

The Submersible Level Sensor is designed to operate while immersed in liquid.

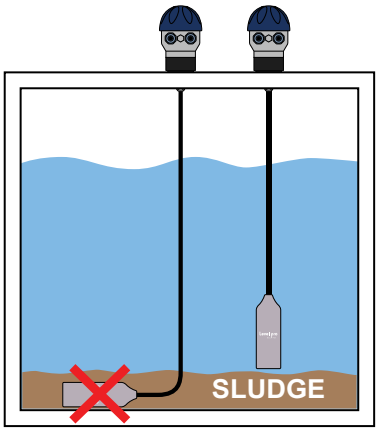


Fig A

- **Avoid** : Installing the level transmitter along the bottom of the tank if materials such as sludge will build up and coat/cover the transmitter.

  This also includes any debris that will settle along the bottom of the tank.

  In these applications, it is best to suspend the transmitter above the highest level of sludge/debris that will occur. See Fig A.

- **Location :** Select a location where the temperature of the transmitter will be within the specification of the sensor.

- **Position :** The transmitter is not position sensitive.

- **Mounting :** The transmitter can be mounted via several methods. It can be suspended from the cable, it can be placed resting on the bottom of the tank in either horizontal or vertical orientation, or it can be attached to a pipe or hardwired using the LP100 conduit box on the top of the housing.

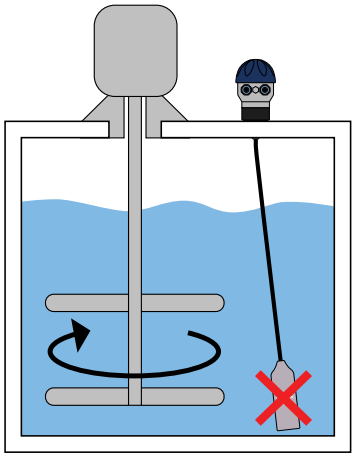


Fig B

- **Avoid :** Installations where other tank requirements will cause the transmitter to move or swing.

  Ex: A mixer blade could cause the level transmitter to whip around within the tank. An alternative would be to move the transmitter to a more stable section of the tank or to install the Transmitter inside a still-well/drop tube. This will minimize the effects created by the mixer.

- **Termination :** The cable for the transmitter is terminated at a junction box located on top of the tank. Since the vent tube is contained within the cable, the pressure within the junction box. A Gortex® Breather to ensure accurate atmospheric pressure inside the junction which is necessary as a reference to the pressure acting on the sensor at the bottom of the tank

  The inside of the function box must be clean, dry and free of moisture.

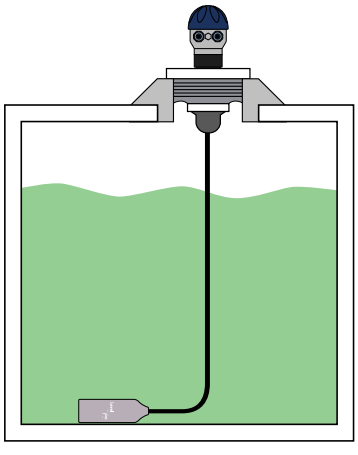


Fig C

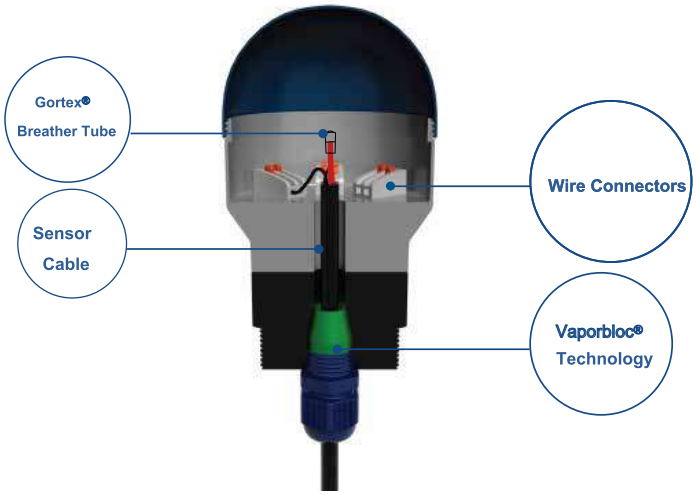
- **Note**: Use caution when connecting the cable within the junction box.

  A ventilation/reference tube located within the cable. The purpose of this tube is to provide a comparison between current atmospheric pressure and the pressure that is being exerted on the sensing diaphragm within the tank.

- The reference tube must be open and free to allow air to flow back to the pressure diaphragm.
- Avoid blocking or bending the ventilation tube by compressing the cable.

Junction Box
Vaporbloc® Installation

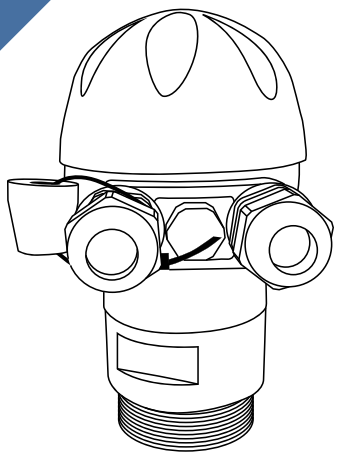
For Fuming Chemicals



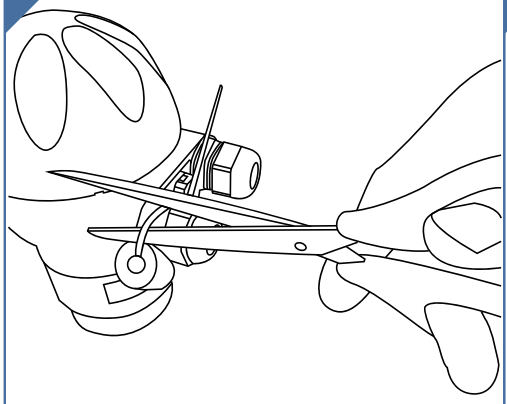
No VaporBloc®

VaporBloc® Installed

1

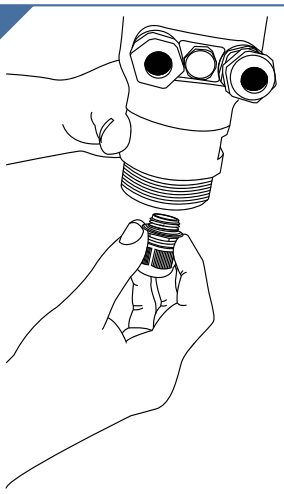


2



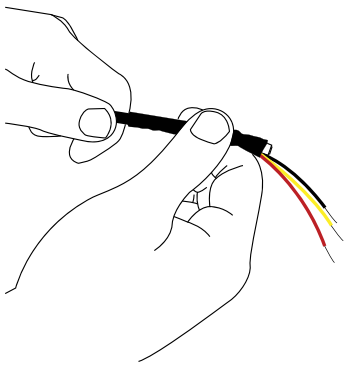
Cut Tie

3



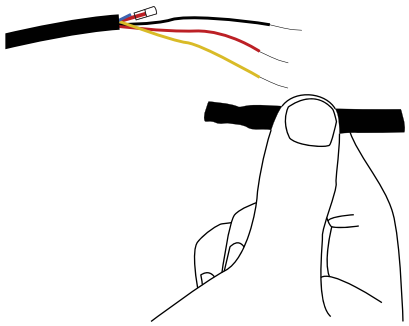
Remove Cable Grip

4



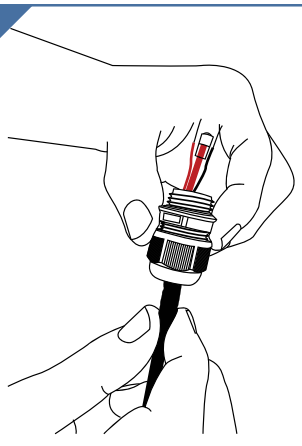
Remove Heat Shrink

5



Discard Heat Shrink

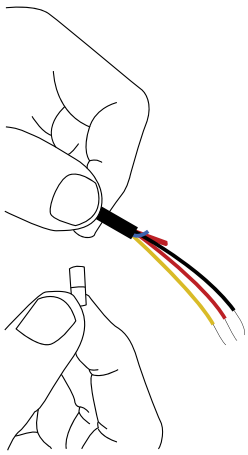
6



Push Wires & Breather Through Cable Gland

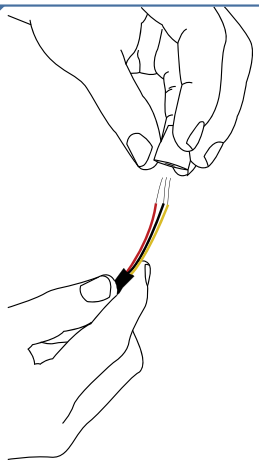
Junction Box
Vaporbloc® Installation

7



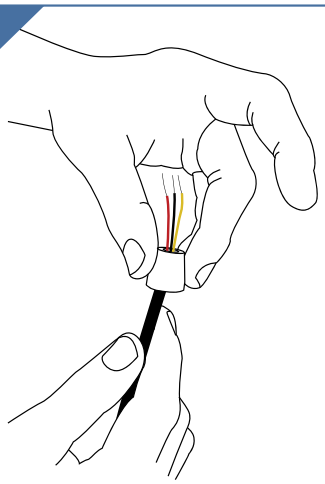
Remove Filter from Vent Tube

8



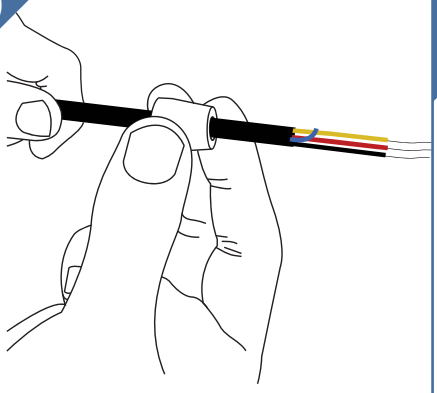
Feed Wires through VaporBloc®

9



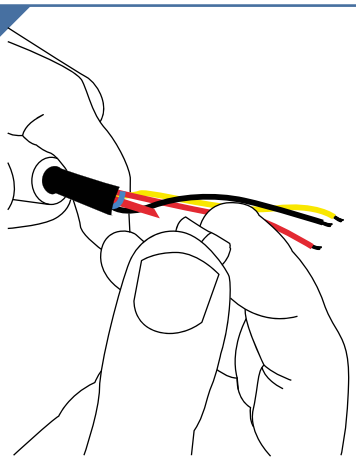
Ensure VaporBloc® is Oriented Correctly

10



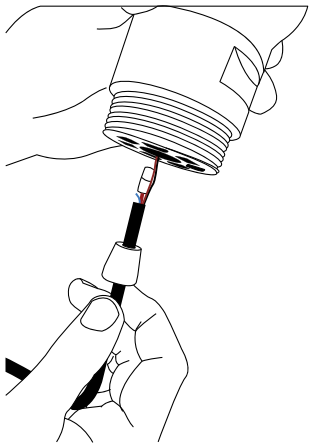
Ensure Vaporbloc® has a Snug Fit

11



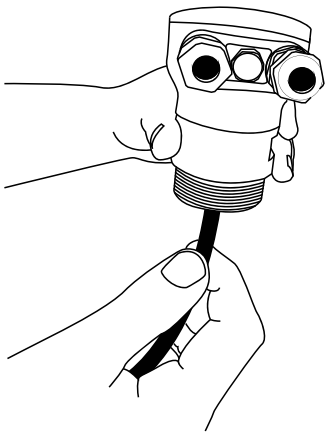
Place Filter back on Vent Tube

12



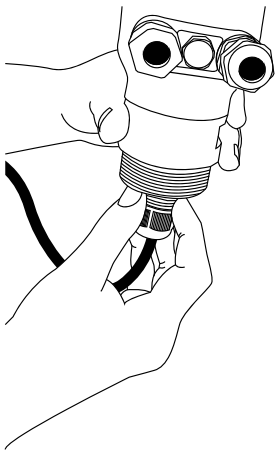
Insert Wire Into the Junction Box

13



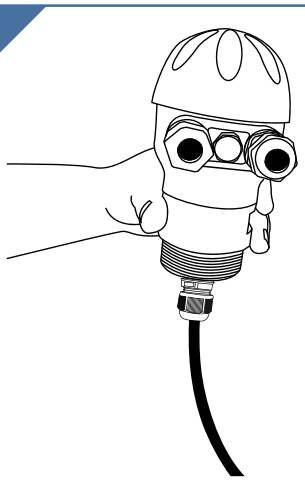
Ensure Cable is fully Inserted

14



Thread Cord Grip Into Junction Box

15

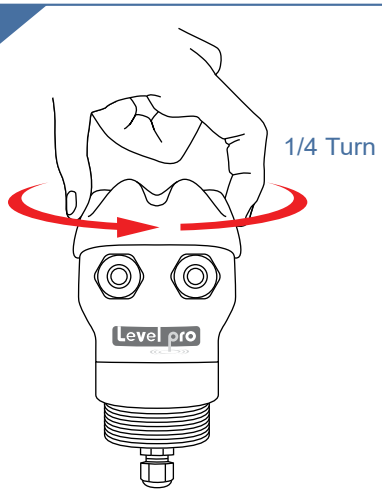


VaporBloc® Installed

Sentinel Tank Level Measurement
Installation Manual

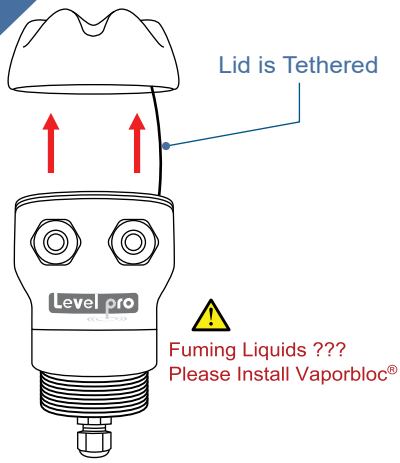
Sensor | Junction Box

1



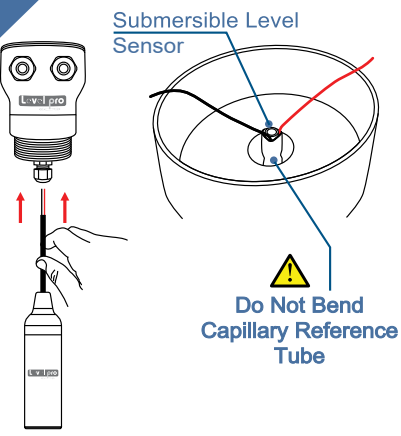
1/4 Turn to Open

2



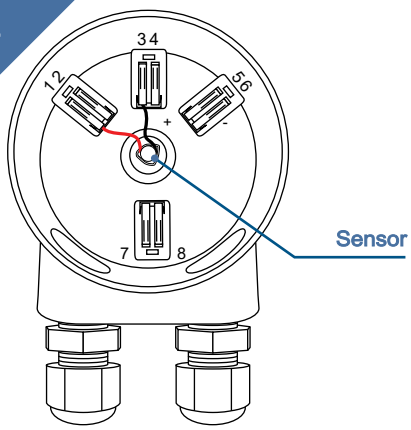
Open Lid

3



1. Feed cable - **Red** and **Black** + Breather into Junction Box
2. Tighten Cord Grip

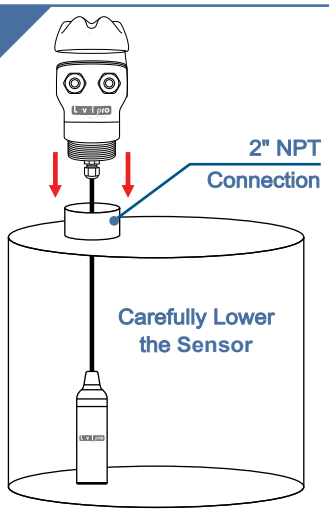
4



Connection : Sensor Wire

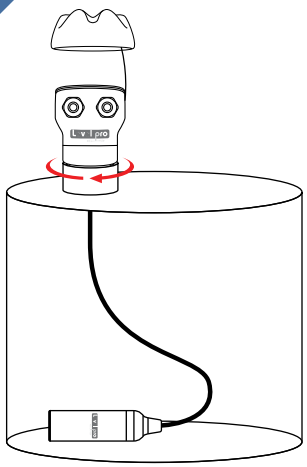
Red Terminal # 1
Black Terminal # 2

5



⚠ Do Not Drop Sensor

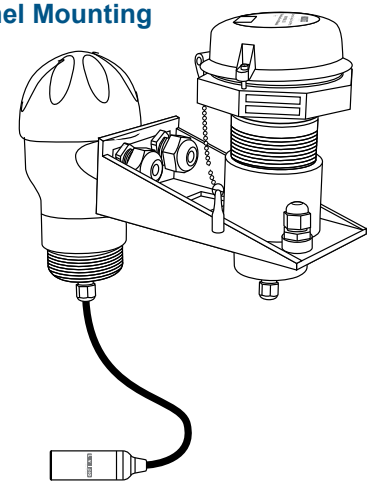
6

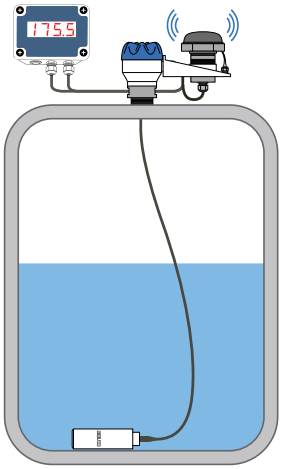


Thread into Tank Fitting

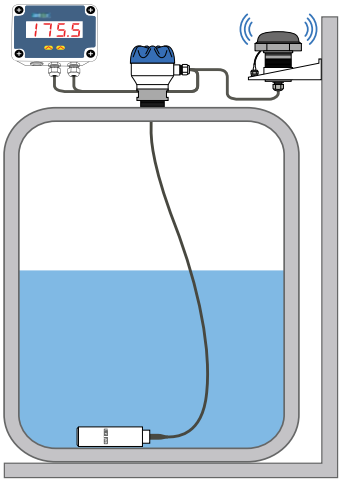
Uplink Mounting

Sentinel Mounting





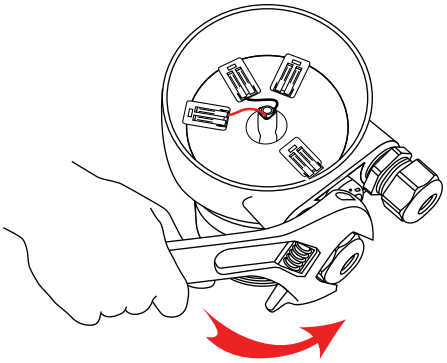
Bracket - Junction Box Mount



Bracket Wall Mount

Sentinel Tank Level Measurement
Installation Manual

7

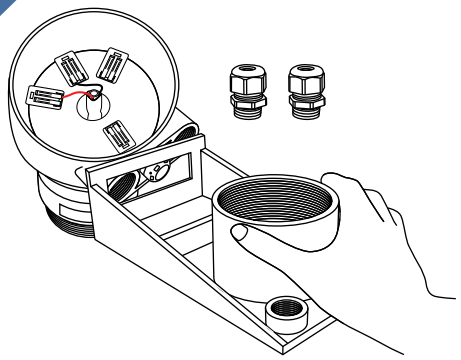


Loosen Cord Grips

8

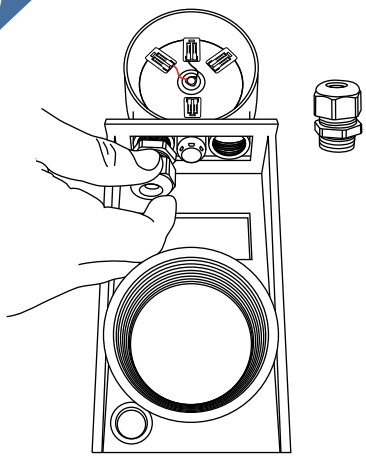
Remove Cord Grips

9



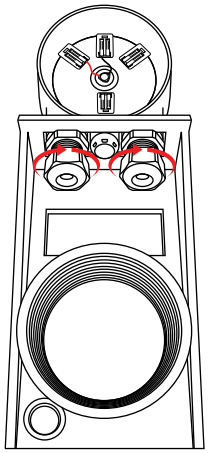
Install Mounting Bracket

10



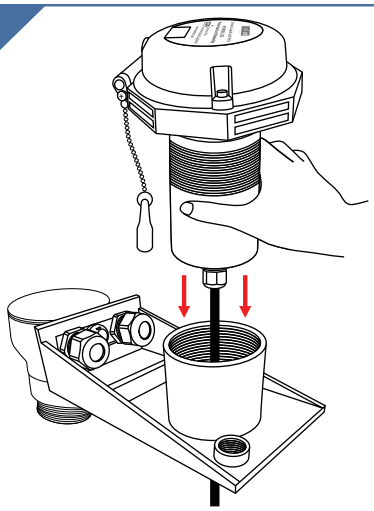
Replace Cord Grips

11



Tighten Cord Grips

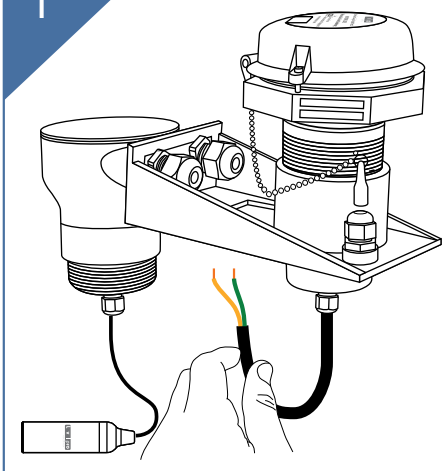
12



Insert UplinkInto Bracket

Wiring

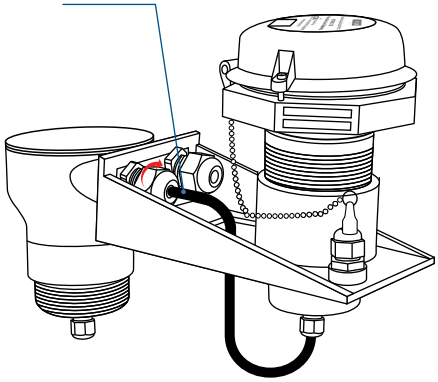
1



Cut & Splice Wire to Desired Length

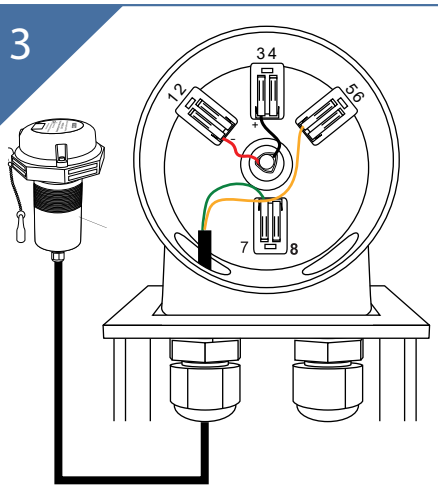
2

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



Green & Orange Wires

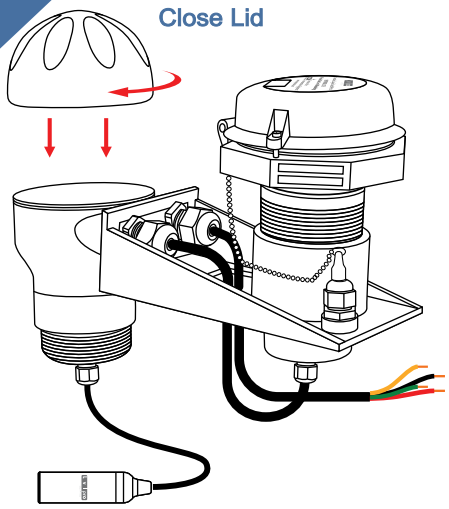
3



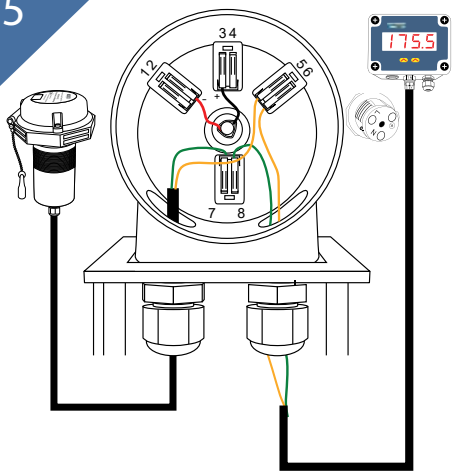
Uplink wire Connection
Green Terminal 7 | Orange Terminal 5

Sentinel Tank Level Measurement
Installation Manual

4

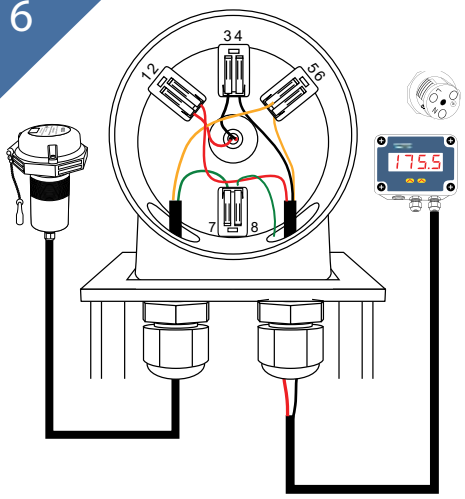


5



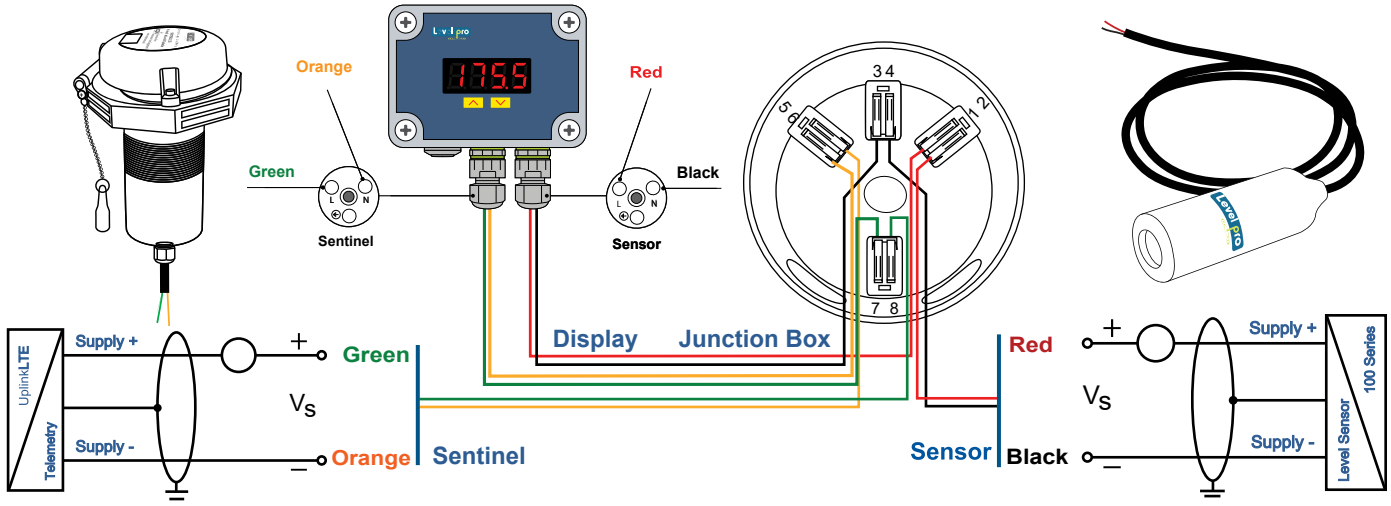
Wire **Green** to **'N'** Terminal
Orange to **'L'** Terminal **Left** Display Port

6

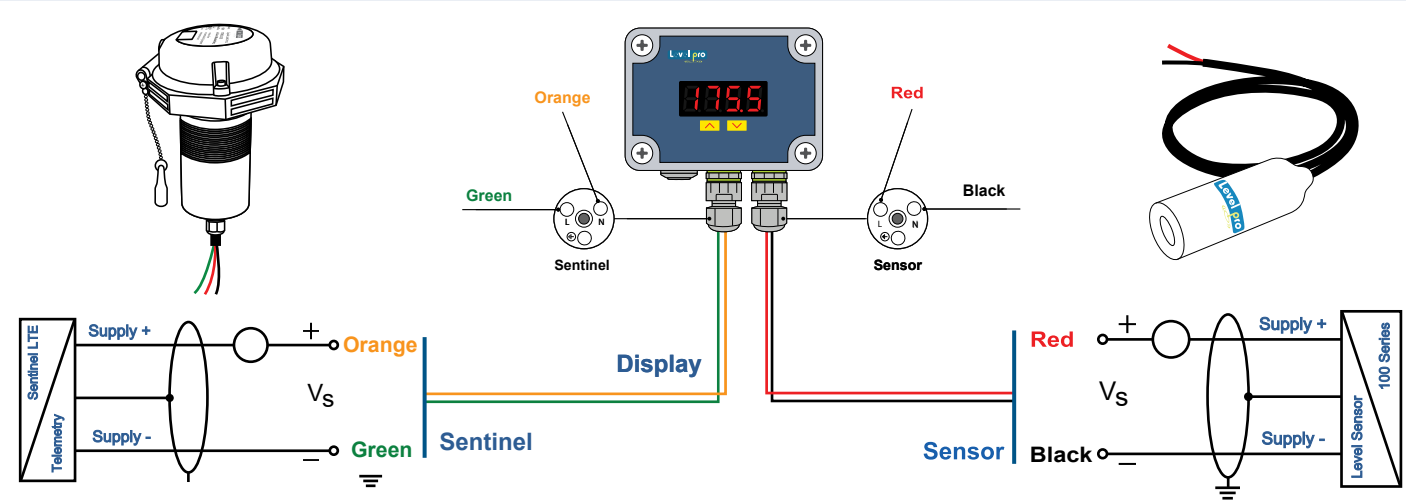


Wire **Black** to **'N'** Terminal
Red to **'L'** Terminal - **Right** Display Port

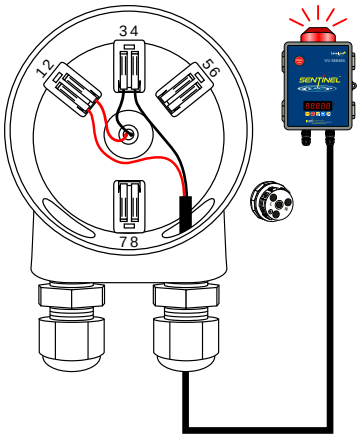
Wiring Sentinel + Display + JB + Sensor



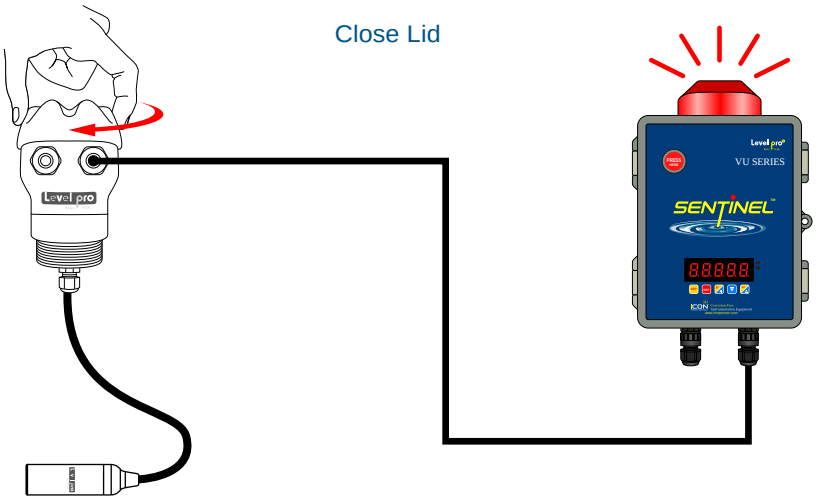
Wiring Sentinel + Display + Sensor



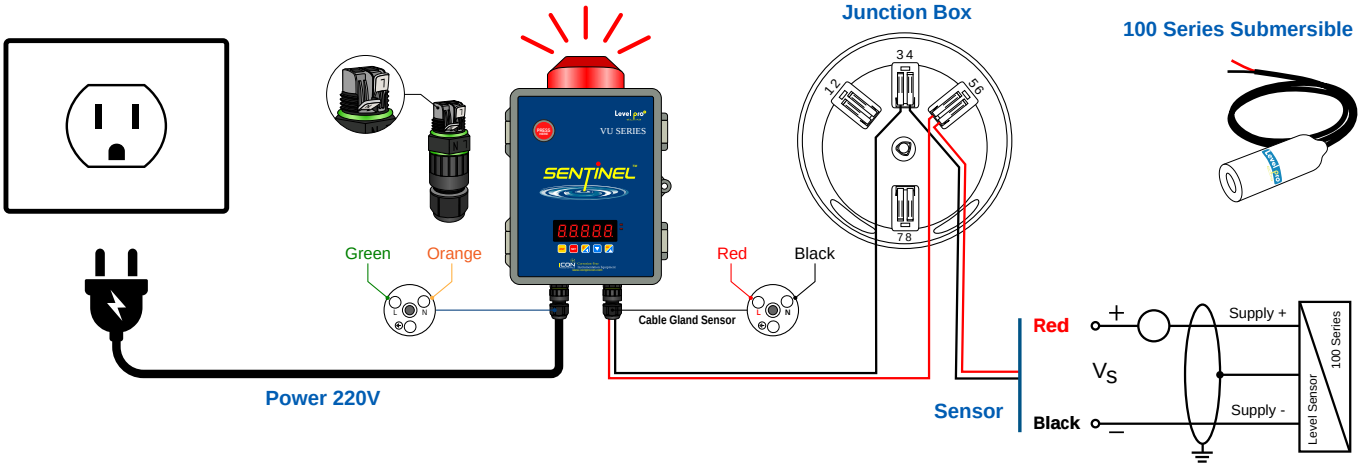
16



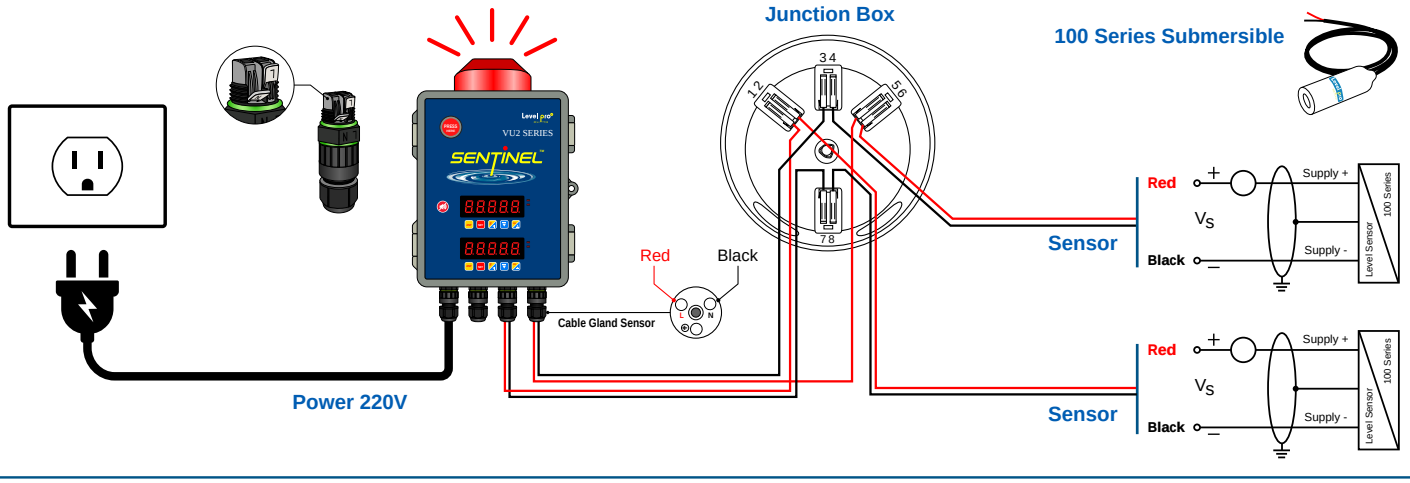
Wire **Black** to '**N**' Terminal
Red to '**L**' Terminal **Right** Display Port



Wiring Sentinel VU with JB & Level Sensor



Wiring Sentinel + Display + JB + Sensor



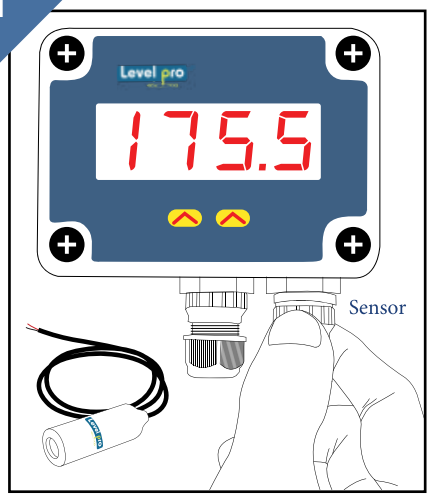
250B SERIES

Battery Powered Level Display

Wiring | Sensor | Display

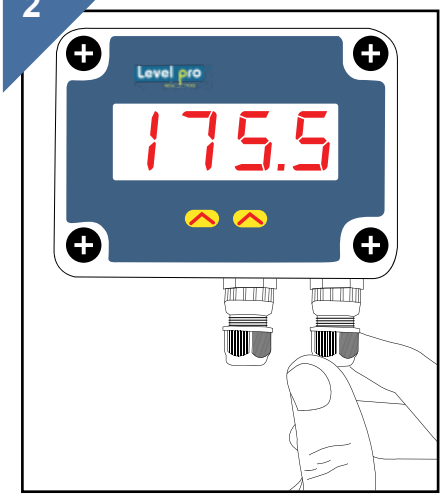
Screwdriver Provided

1

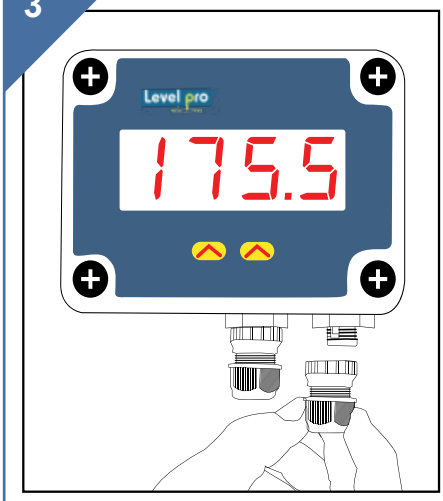


Turn Cable Grip Nut Counter-Clockwise

2

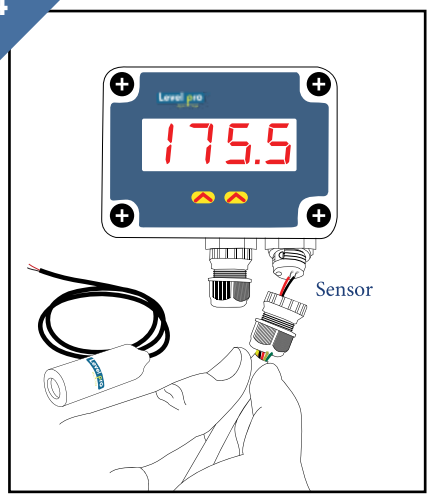


3



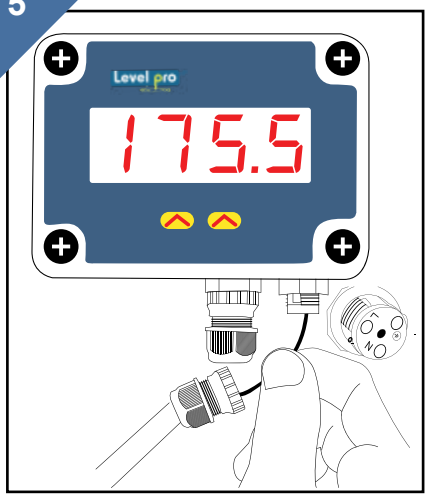
Remove Nut and Cable Grip

4



Feed Wire Through

5

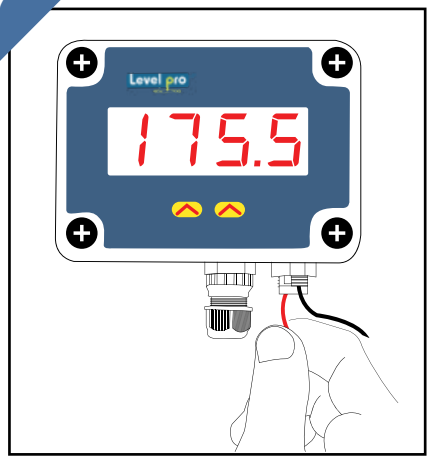


Insert **Black** Wire Into 'N' Port

6

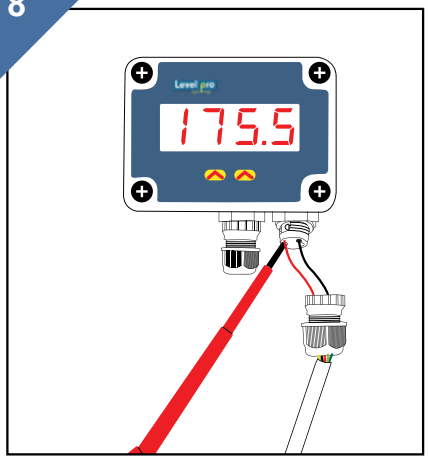
Tighten 'N' Terminal Screw

7



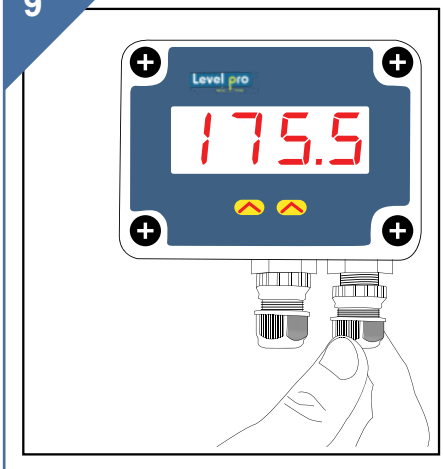
Insert **Red** Wire Into 'L' Terminal

8



Tighten **'L'** Terminal Screw

9



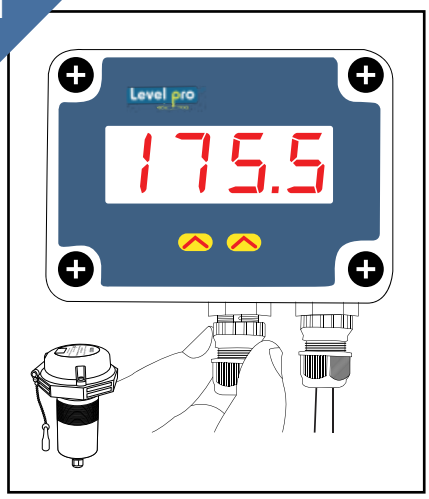
Hand Tighten Cable Grip

250B SERIES

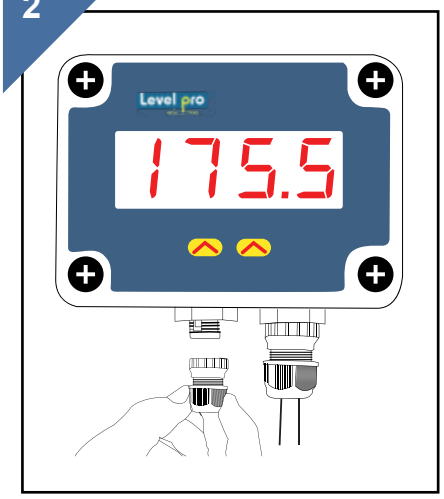
Battery Powered Level Display

Wiring | Uplink

1

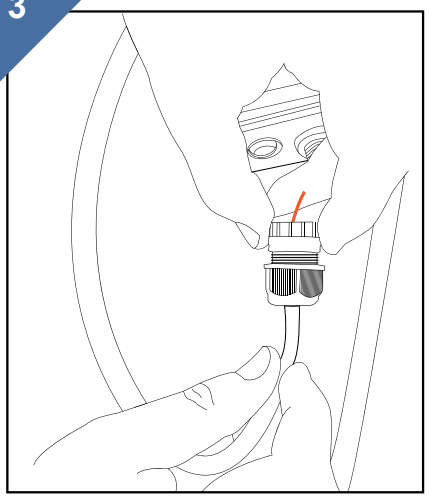


2



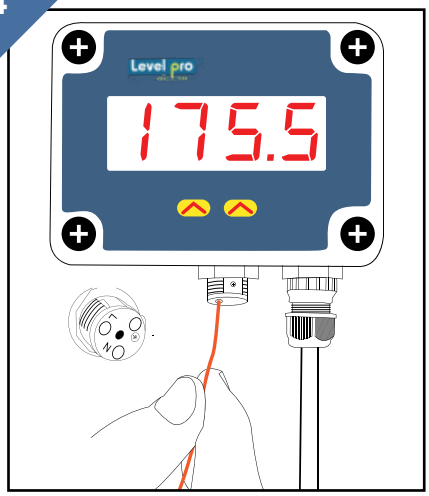
Turn Cable Grip Nut Counter-Clockwise

3



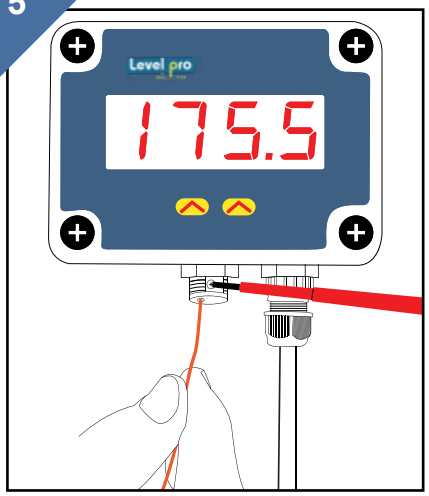
Feed Uplink Wire Through

4



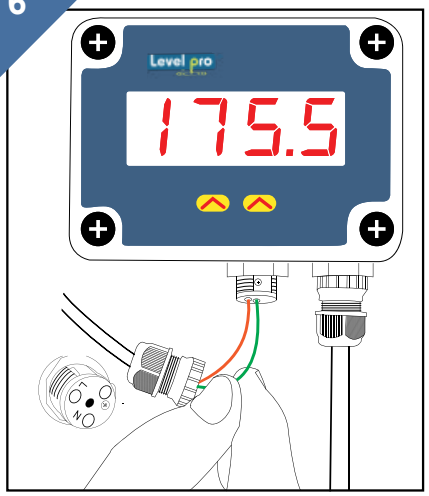
Insert Orange Wire Into **'L'** Terminal

5



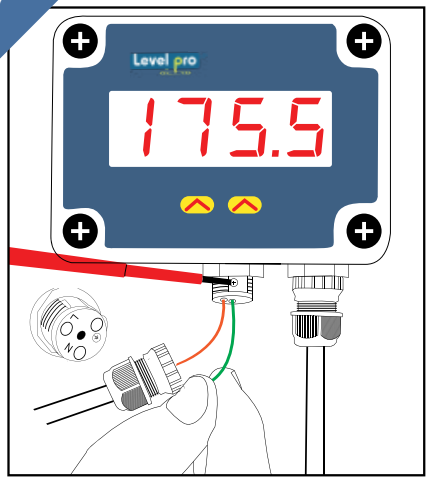
Tighten **'L'** Terminal Screw

6



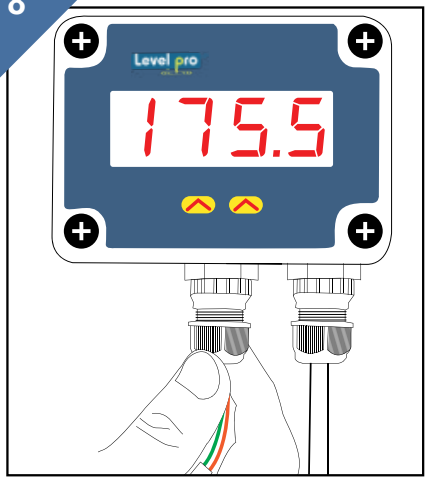
Insert Green Wire Into **'N'** Terminal

7



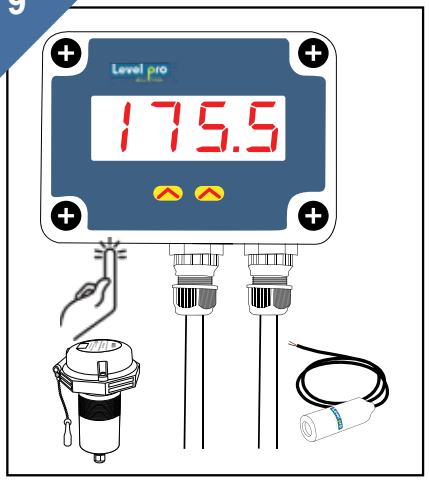
Tighten **'N'** Terminal Screw

8



Hand Tighten Cable Grip

9



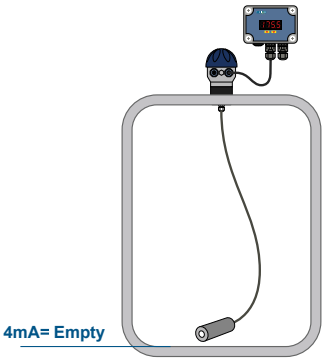
Press Button To Test

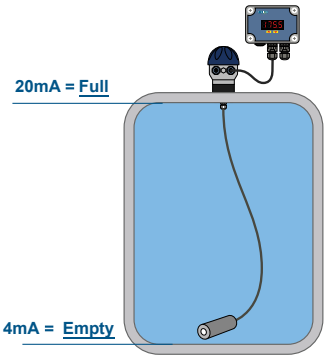
250B SERIES

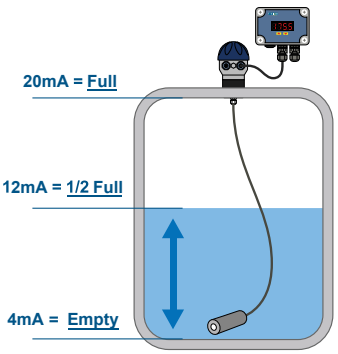
Battery Powered Level Display

Programming Display

STEPS	DISPLAY	OPERATION
#1 Buttons Together — Hold 3 SECS	-Cd-	Press and Hold Both Buttons to Enter the Menu
#2 Release Buttons	1230	Enter Pass Code: 1234 } Move to Next Step
#3 Press ^ 4X	1234	Using the UP Arrow, Press 4X Times until the Password Reads '1234' Click Both Buttons at the Same Time to Proceed into the Menu
#4 Press Up + Down Buttons Together — Hold 3 SECS	-dP-	Decimal Point- Default = 0
#5 Press to Change	0123	0 = Default 0 = Decimal Place 1 = Decimal Place 2 = Decimal Places 3 = Decimal Places
#6 Press Up + Down Buttons Together — Hold 3 SECS	dIL	Enter Low Level Value - 4mA Default = 0
#7 Change to Desired Value — or	0	4mA = Empty Level Value of the Sensor Inches | Feet | Gallons | Refer to Reference Picture
#8 Press Up + Down Buttons Together — Hold 3 SECS	dIH	20mA = Full Level Value Default = 100 | Refer to Reference Picture
#9 Change to Desired Value — or	100	20mA = High Level Value Inches | Feet | Gallons Displaying Inches of Liquid Sensor Range / S. G i.e. Max R / S.G = 34'/ S.G = Inches of Liquid Displaying Gallons Sensor Range / S.G x Gal / Inch (Based On Tank Capacity) = Gallons of Liquid
#10 Current Level — Hold 3 SECS — Press to Save Value	00	Display Indicates Current Tank Level Value





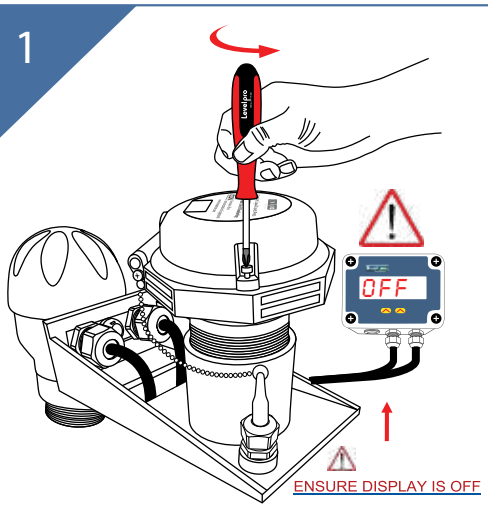


Sentinel Tank Level Measurement
Installation Manual

Push Button Call-Out

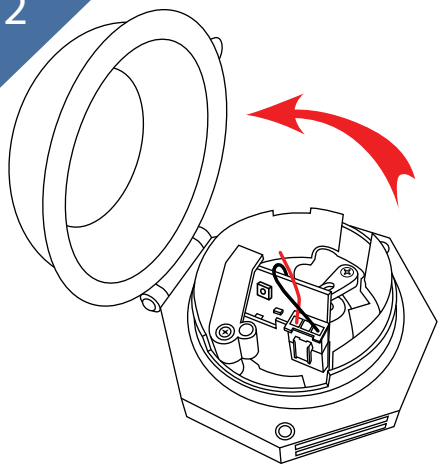
ENSURE DISPLAY IS OFF BEFORE INITATING CALL-OUT

1



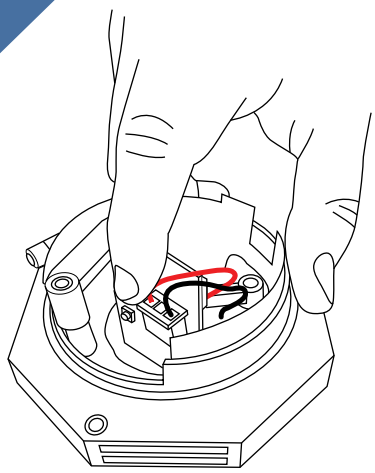
Loosen Screws

2



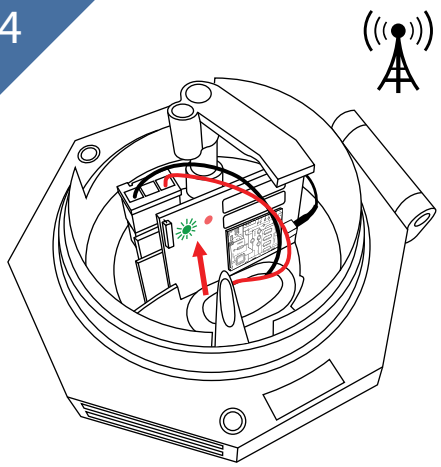
Open Lid

3



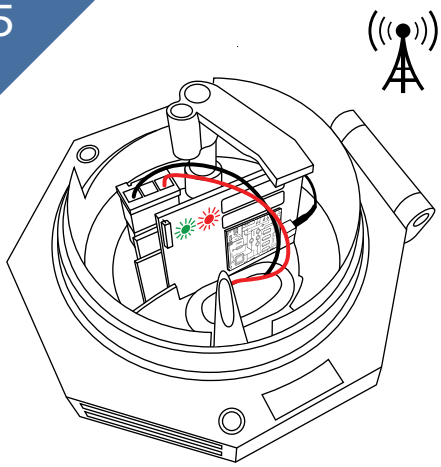
Press the Button - Power On

4



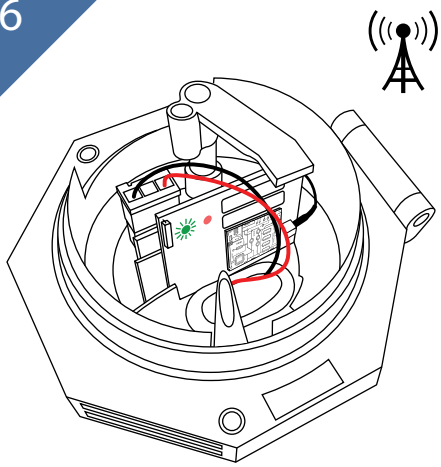
Slow **Green** Light Flashes

5



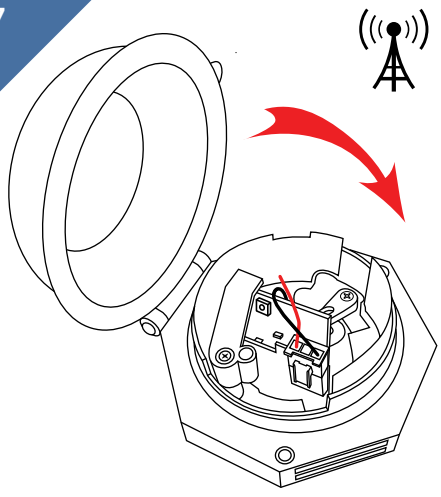
Green + **Red** LED's Flashes Alternatively

6



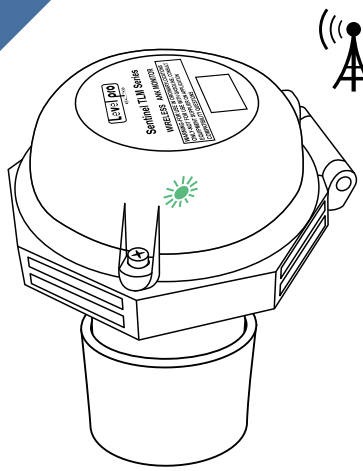
Green LED Will Go Steady On

7



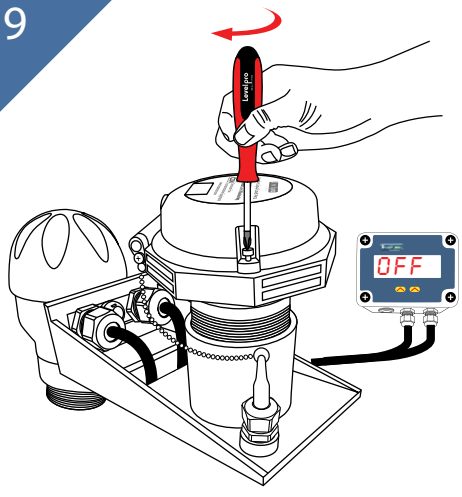
Closed Lid

8



Visual Light On Lid

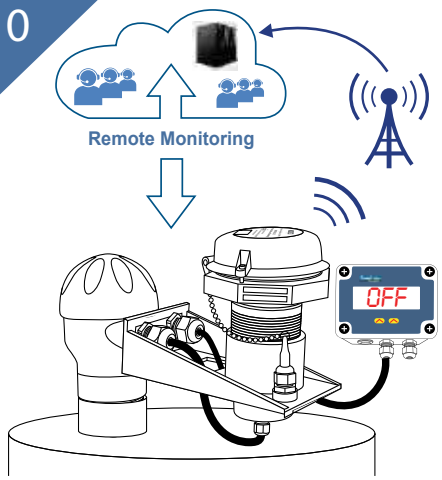
9



Tighten Cover Srews

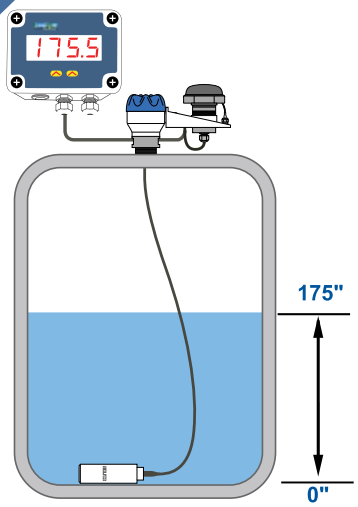
Sentinel Tank Level Measurement
Installation Manual

10



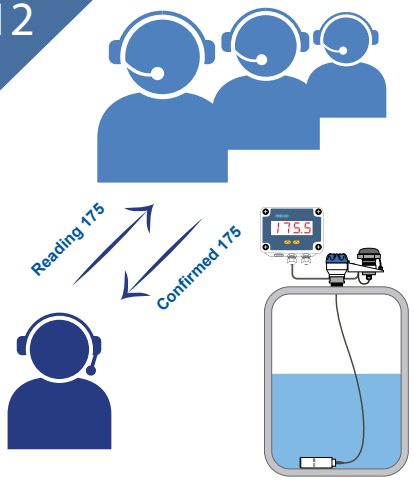
Tank Data Transmitted to Cloud Tank Monitoring Center

11



Turn Display **On After Call-Out**

12

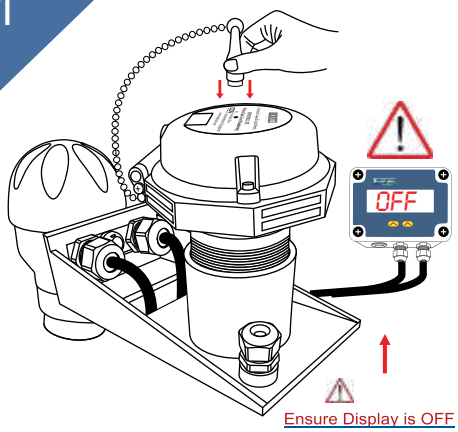


Confirm Level Reading with Service Provider

Magnetic Call-Out

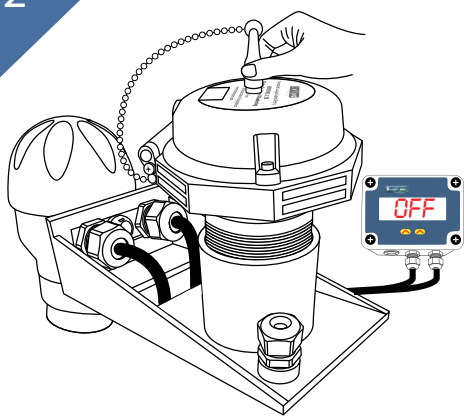
ENSURE DISPLAY IS OFF BEFORE INITATING CALL-OUT

1



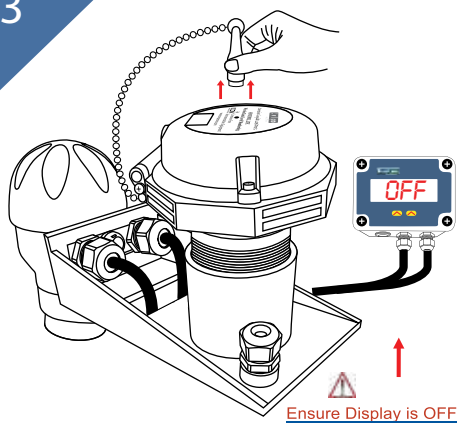
To Initiate the Call Out Place the Magnet Against the Lid

2



Hold the Magnet in Place for One (1) Second

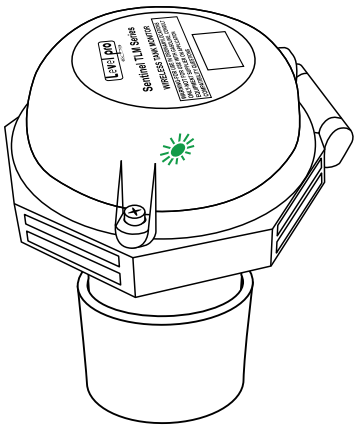
3



Lift Magnet

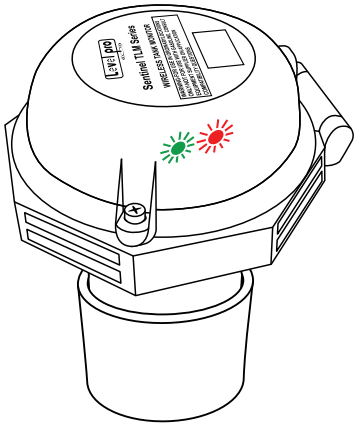
4

Call Out Sequence is Initiated



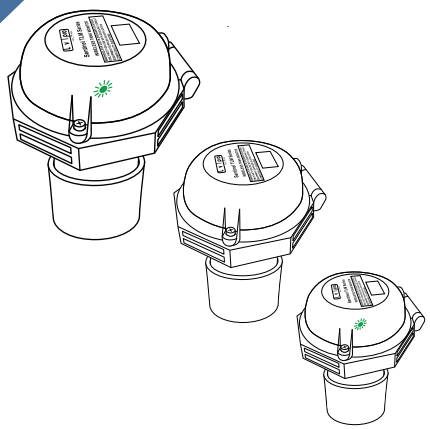
Slow **Green** LED Flashes

5



Green & **Red** LED Alternating Flashes

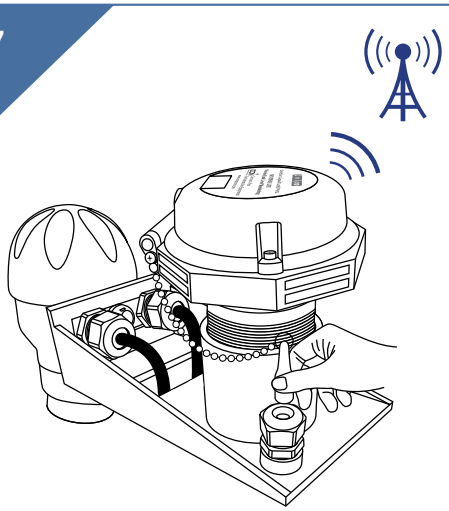
6



Green LED will go steady Green Light Flashes and Goes Out

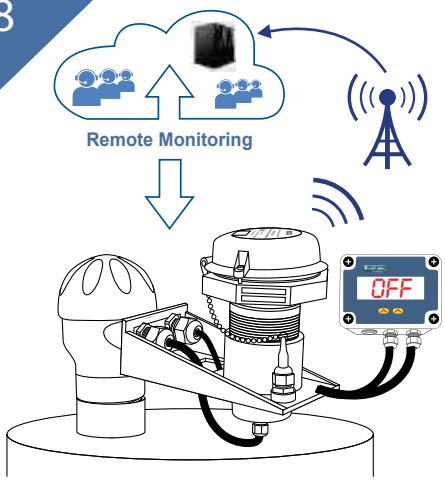
Sentinel Tank Level Measurement
Installation Manual

7



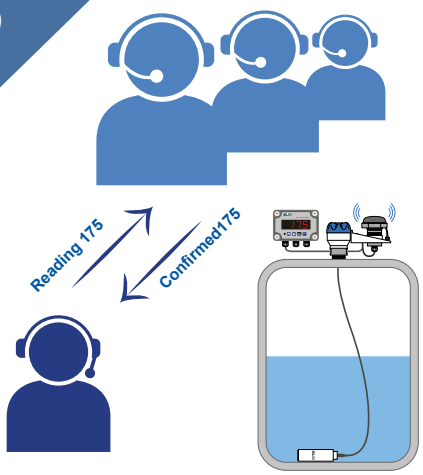
Place Magnet into Holder for Protection from Elements

8



Tank Data is Transmitted to Cloud Tank Monitoring Center

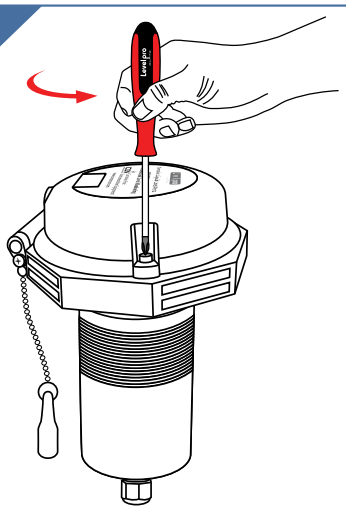
9



Contact Provider to Confirm Level Reading After Call-Out

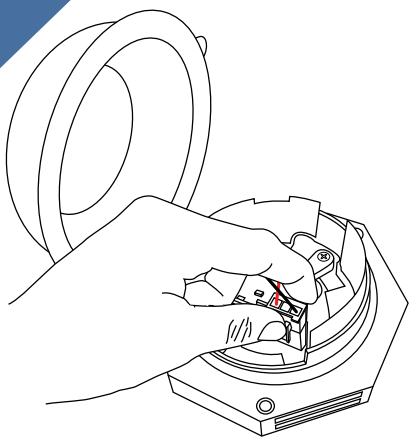
Battery Replacement

1



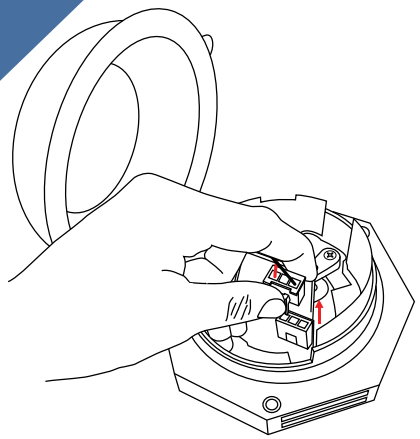
Remove Screws - Open Lid

2



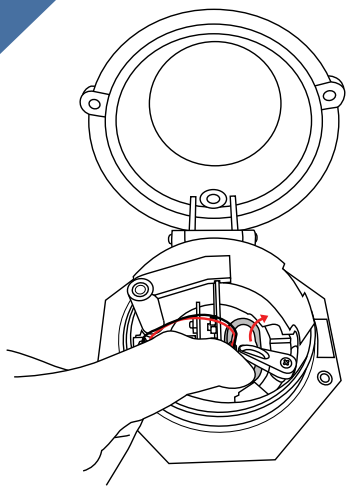
Press On Connector with 2 Fingers

3



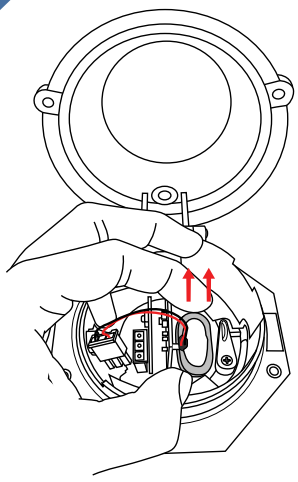
Gently Pull Connector Upwards

4



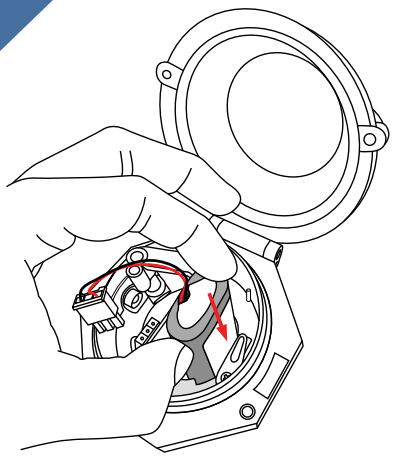
Gently Slide Retainer Clockwise

5



Gently Pull Up on Battery

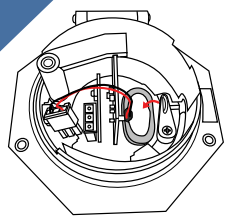
6



Insert New Battery

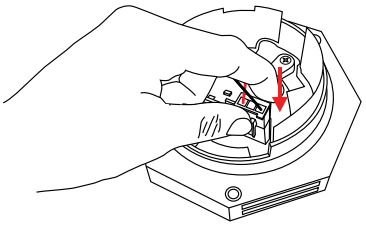
Sentinel Tank Level Measurement
Installation Manual

7

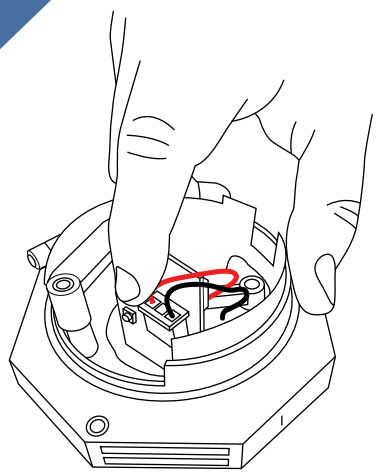


Slide Retainer Counter Clockwise

Re-Connect Battery Connector

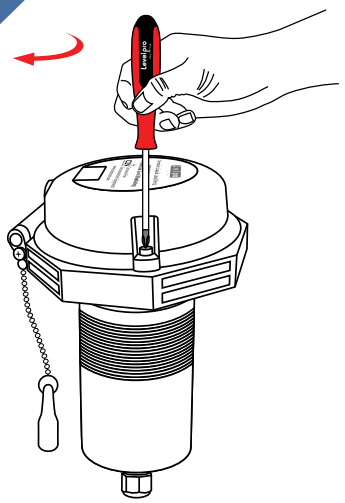


8



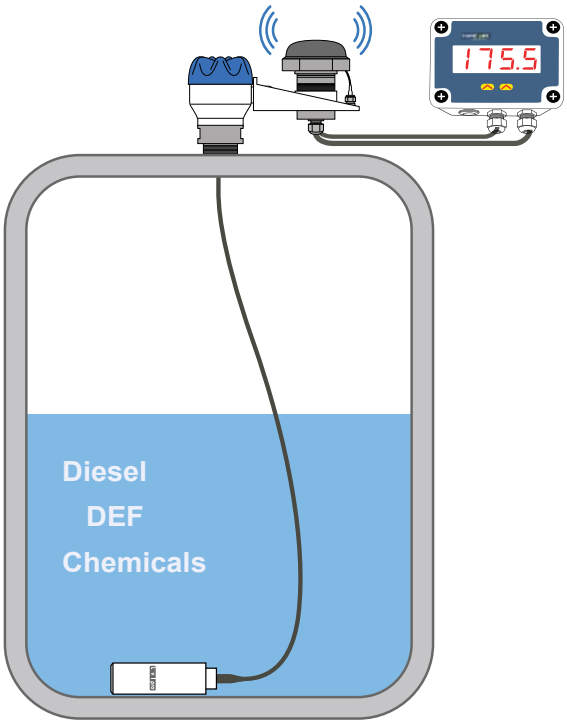
Push Button to Initiate Call Out

9



Close Lid and Tighten Screws to Seal

Application Details

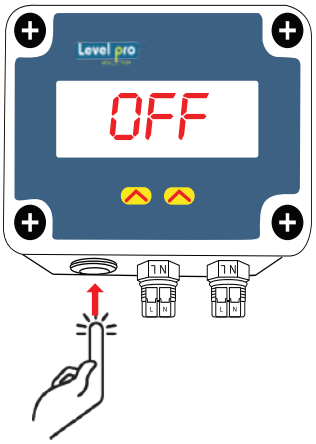


- **Chemical** _____
- **Concentration** _____
- **Specific Gravity** _____
- **Temperature** _____
- **Solids** Yes ☐ No ☐
- **Out-gassing or Vapors** Yes ☐ No ☐

- **Tank Dimensions W x H inches**

  W = ____ H = _____
- **Vertical** ☐ **Horizontal** ☐
- **Flat Bottom** ☐ **Conical Bottom** ☐

TroubleShooting

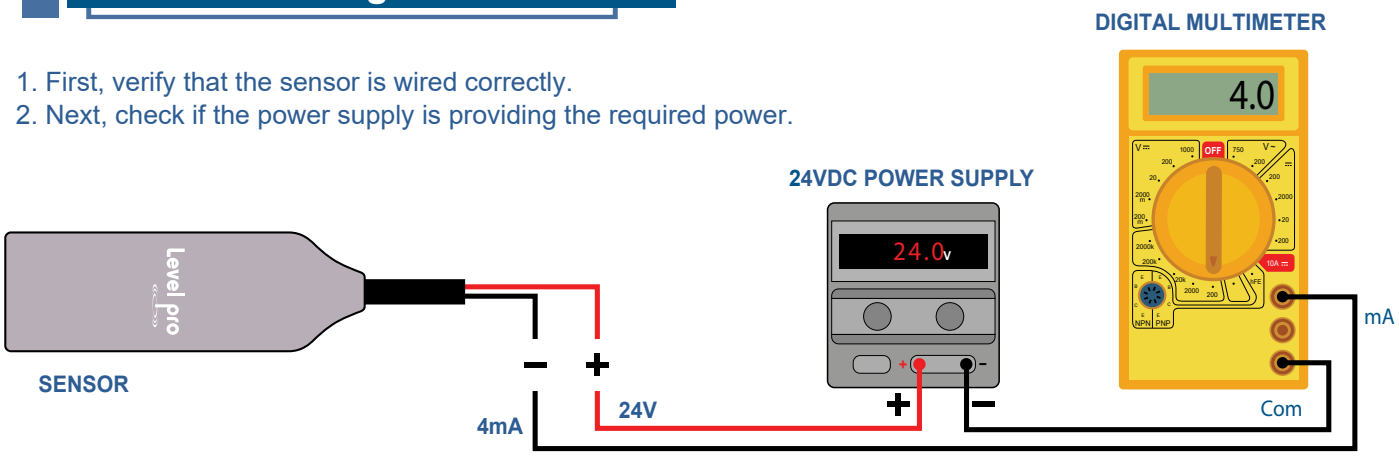


Invalid Data ?

Ensure Display is OFF when Initiating Uplink Call-Out

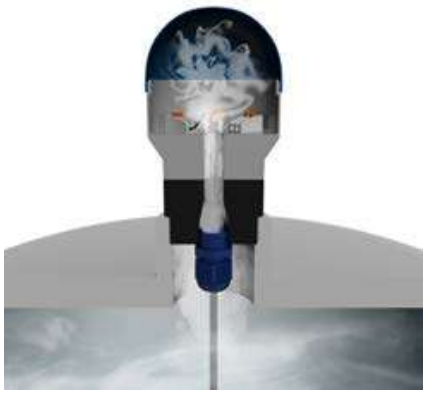
Trouble Shooting the Sensor

1. First, verify that the sensor is wired correctly.
2. Next, check if the power supply is providing the required power.

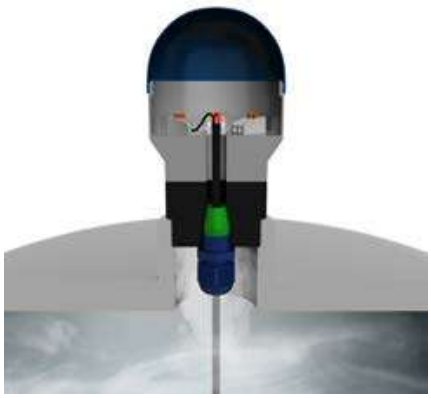


If transmitter is not functioning properly, isolate the transmitter from the system and wire as shown above. The Multi-Meter should read 4mA when the sensor is not submersed in Liquid.

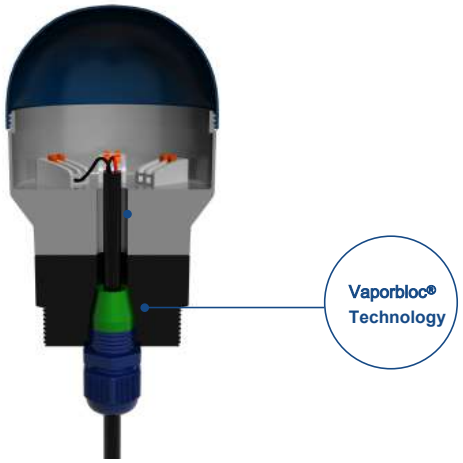
Measuring Liquids that Fume, Form Vapor Blankets or Out-Gas - Ensure Vaporbloc® has Been Installed



Fumes Entering JB



Ensure Vaporbloc is Installed



Sentinel Tank Level Measurement
Installation Manual

Display Not Turning On

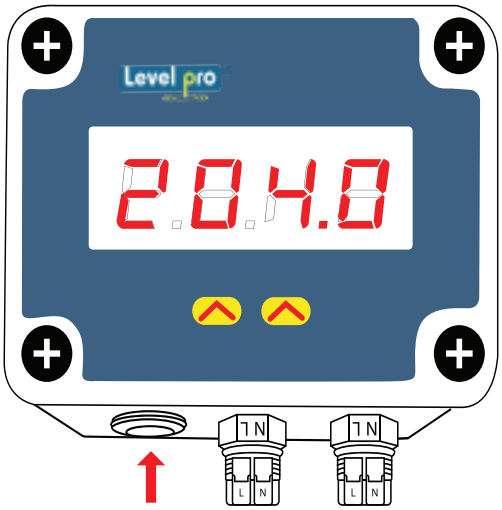
- Check Wiring
- Check Battery Status

Invalid Data Transfer

- Ensure Display is **OFF** when making Call-Out
- Check Battery Status

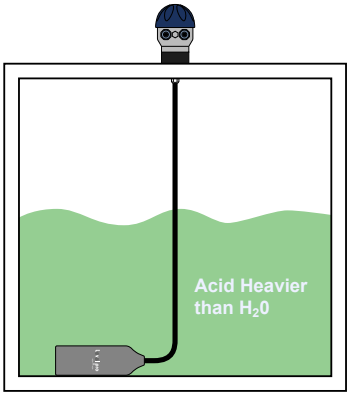
Display Indicates LL

- Check Battery Status
- Check Wiring



Incorrect Display Reading

- The reference or capillary tube is fitted with a Gortex® Filter - this must remain attached in order to prevent moisture , particulate or insects from entering. Do Not Remove.
- Avoid blocking or bending the ventilation tube.
- The LP100 Installation Junction Box is fitted with a Gortex® Breather to allow for air to pass but not water. Please Ensure this Not Blocked
- Always keep the cable termination clean, dry and free of moisture and prevent liquid from entering the vent tube
- Confirm Programming Input for for 20mA (d IH on Display) is Correct
- Confirm Specific Gravity of Liquid is Correct.



Determine 20mA Value to Program d IH on Display

Example : S.G of the Liquid is Heavier than H_2O

The Submersible Sensor Range is 34' is now going to be installed into a tank of Acid S.G = 2

S.G = 2 : Sensor Range = 0 - 34'

To calculate the New Range of the Sensor = Range/S.G | 34/2 = 17.5 ft or **204** inches

The liquid is Heavier than H_2O so the Overall Sensor Range Has been reduced to 17.5 ft or 204 inch**es The 204 is**

Entered

20mA = Full Level Value
Default = 100 | Refer to Reference Picture

20mA = the High Tank Level Value of the sensor. Inches | Feet | Gallons

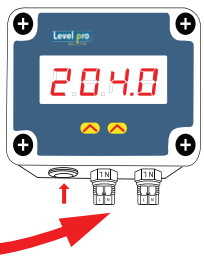
*** This number is determined by dividing the max range of the sensor by the Specific Gravity**

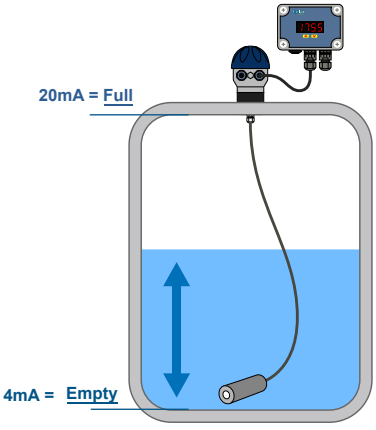
Display Inches

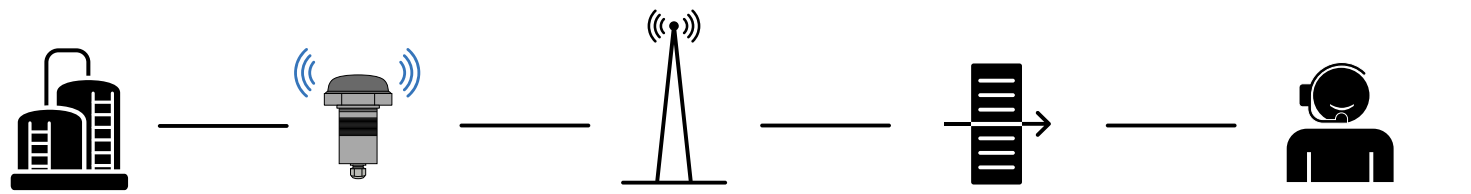
Range/S.G = 34'/S.G = New Full Range of Sensor | 20mA

Display Gallons

Range / S.G x Gal/Inch = Gallons






TANK | SUMP
SENTINEL
CELLULAR NETWORK
CLOUD ONLINE
INVENTORY MANAGER


DIESEL FUEL