

Sentinel Series LT

Tank | Sump Liquid Level Telemetry Monitoring Operating Manual







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Safety Information



Warning | Caution | Danger

Indicates a potential hazard. Failure to follow all warnings may lead to equipment damage, injury, or death



Note | Technical Notes

Highlights additional information or detailed procedure.



IMPORTANT!

Do Not Use Tools

indicates situations or cases which, if not avoided, could result in damage or failure of the **Products** equipment.



Use of tool(s) may damage product beyond repair and potentially void product warranty.

- De-pressurize and vent system prior to installation or removal
- Confirm chemical compatibility before use
- DO NOT exceed maximum temperature or pressure specifications
- ALWAYS wear safety goggles or face-shield during installation and/or service
- DO NOT alter product construction

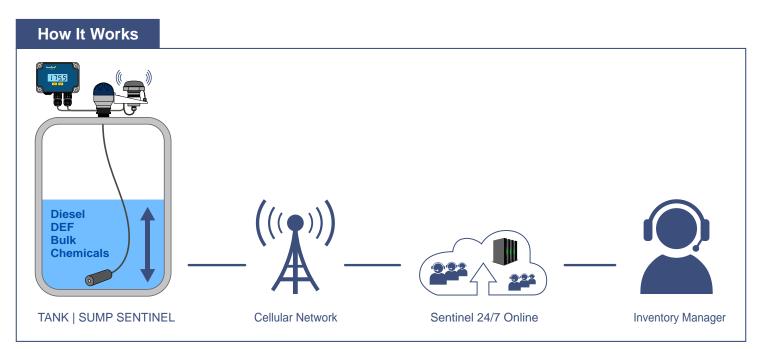
All operations described in this instruction manual have to be carried out only by trained personnel or an accredited person. Warranty and post warranty service must be exclusively carried out by the manufacturer.

Improper use, installation or set-up of the level meter can result in crashes in the application (overfilling of the tank or damage of system components).

The manufacturer is not responsible for improper use, losses of work caused by either direct or indirect damage, and for expenses incurred during installation or use of the level meter.

Technological Progress

The manufacturer reserves the right to revise, alter, or modify the flow meter to the most current technology without special prior notice. Further information about the latest updates and potential additions to these operating instructions are available from **www.iconprocon.com**



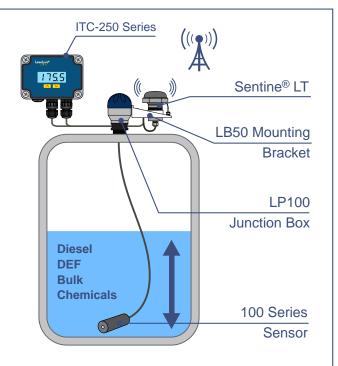


Product Description

The **Sentinel Series** is a Battery Operated Remote Tank Level Monitoring system that delivers reliable daily measurements that are both scheduled and event driven. Remote tank level monitoring with the **Sentinel** is exceptionally flexible, eliminating the hassles of network infrastructures and Internet service. The Telemetry device 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 the **Sentinel** Cloud Based Website.

The **Sentinel** Remote Tank Level Monitoring unit provides you with important data readily at your fingertips on your Computer, Tablet or Smart Phone. The perfect solution for bulk chemical companies and large tank farms to save money on their logistics costs.

The Sentinel Series pairs well with our 100 Series Submersible Level Sensor and our ITC-250 Series Battery Operated Liquid Level Display & Controller to provide you with the industry's most reliable complete tank level monitoring package. Mount your Sentinel unit directly to the top of the tank using our LB50 Mounting Bracket.



Sentinel Series LT | Telemetry Monitoring



Features

- ⊘ Battery Operated No Pragramming
- ⊘ 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 Bracker

LB50 Mounting Bracket



Features

- ⊘ 2" NPT Connection
- Securely Holds Sentinel Series Telemetry Tank Monitor
- ⊘ Perfect for PLF Series Point Level Switches
- Junction Box or Wall Mounting
- ⊘ All Plastic Corrosion Resistant Design



100 Series Submersible Level Sensor Features Observed - No Pragramming Remote Tank Monitoring via Cellular Networks ⊘ E-mail / text Reporting Alarms ⊘ 24/7 access to data through Cloud Based ⊘ Sentinel 247TM Online Gortex[®] Breather ⊘ Battery powered up to 5 years (3 calls/day) ⊘ Variety of Trigger Points ⊘ Mobile Ready Access The **100 Series** Transmitter is ⊘ Optional LB50 Mounting Bracker designed for Continuous Level Measurement of Aggressive The Solution to Tough Applications Where Liquid Media Ultrasonic Sensors Simply DO NOT WORK! **LP100 Junction Box Features Internal Wiring** ⊘ New Vaporbloc[®] Technology ⊘ NEMA 4X Enclosure From Sensor ⊘ Tool Free Wiring Terminals ⊘ All Plastic NEMA 4X Enclosure ⊘ 2" Threaded Connection ⊘ Excellent Chemical Resistance ⊘ Weather Resistant ⊘ Gortex[®] Air Breather Included Out to Display Polypropylene Cord Grips ✓ Tethered Lid Lightweight Glass Filled Polypropylene evel P ⊘ Self-Draining Lid **Vaporbloc**® Vaporbloc[®] Technology O Blocks out Corrosive Chemical Fumes ⊘ Pressure Tested to 75 psi ⊘ Protects Internal Wiring Connections ⊘ Eliminates Corrosive Funes Out-gassing ⊘ into Environment The LevelPro® 100 Series continuous submersible level transmitter and

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

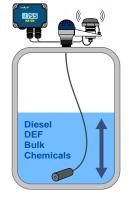
After

Before



ITC-250B Series Battery Powered Level Display





Features

Battery Operated

- ⊘ Battery Powered
- ✓ Super Bright LED Digits
- ⊘ NEMA 4X Enclosure
- Security Protection
- Omega Momentary or Adjustable Relay Timer*
- ⊘ NEMA 4X Enclosure
- ⊘ LED Display
- ⊘ All Plastic Corrosion Resistant
- ⊘ All Cord Grips Included
- ⊘ Simple Programming

TVL Series Tank Level Display & Controller

R1 R2



ΊÌ

220VAC Operated

Features

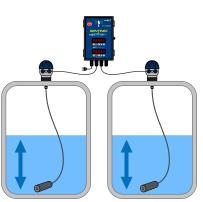
- SunBright Technology for Outdoor Applications
- ⊘ No Assembly Required
- ⊘ Signal Peak Value Detection | Dampens Noise
- ⊘ 3 Wire Cord Grips Included | No Add Ons
- ⊘ Relay Lights & Audible Alarm Function
- ⊘ Completely Thermoplastic | Corrosion-Free

VU2 Series Remote Tank Level Monitoring (Dual Tank System)



Level pro[®]

X



Diesel DEF

Bulk Chemicals

Features

- ⊘ 2x LED Display
- ⊘ 120VAC Powered | No Batteries
- ⊘ Remote Monitoring via Cellular Networks
- ⊘ 24/7 Access to Data via Cloud Based
- ⊘ Low Monthly Cost
- ⊘ 5-Digit LED Display
- ⊘ Access Data Via PC | Laptop | Phone
- ⊘ 2-5A Relays + 4-20mA Output



Technical Specifications - 100 Series Submersible Level Sensor

Input Pressure Range					
Level ft/H ₂ O	14	20	34	54	* Consult Factory for Levels > 54 Ft
Overpressure ps	i 210	290	290	380	
Burst Pressure > ps	i 290	580	580	720	
Output Signal Supply					
Standard	4-20m	A 2-wire	Hart R	S 485 Voltage	
Performance					
Accuracy	<± 0.5	% Full Sc	ale or Be	etter	
Permissible Load	Rmax =	= [(Vs-Vsr	nin)/0.02	2 A]	
Influence Effects		/ : 0.05% 0.05% F		le	
Long Term Stability	<± 0.1	% Full Sc	ale Over	One Year	
Response Time	<10 m	sec			
1Accuracy According to IEC 60	0770 - Limit	Point Adj	ustment	Non-Linearity	Hysteresis Repeatability
Thermal Effects Offset a	nd Span				
Thermal Error		% FSO/K		-25 - 70°C -13	- 158° F
Permissible Temperatures	5				
Permissible Temperatures	PVC 3	2°F - 140	°F I	PP -4° - 178°F	PVDF -30 - 178 °F Storage -10°C - 60°C
Electrical Protection					
Short-Circuit Protection	Perma	nent			
Reverse Polarity Protection	No Da	mage to	Sensor		
Electromagnetic Compatibility	Emissi	on Immu	nity Acco	ording to EN 613	326
Short-Circuit Protection	Perma	nent			
Electrical Connection					
Jacketed Cable	PTFE	(Teflon®)	0 - 200	°F	
3 Wire Cable with Integrated Air Tube for Atmospheric Pressure Reference					
Materials Wetted					
Housing	PVC	PP PVC	F		
Seals	FFKM	- Kalrez®)		
Diaphragm	Ceram	ic AI2 03			

Technical Specifications - Sentinel Series LT			
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		

Technical Specifications – ITC-250B Series – Battery Powered Level Display		
Power Supply	2600mAh Battery Powered	
Display	LED 4 x 20 mm High Red	
Displayed Values	-999 - +9999	
Input	Current : 4-20mA	
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	Wall Mounted Material - Polycarbonate	
Dimensions (WxNxD)	110 x 105 x 67 mm	

Technical Specifications – TVF Series – Level Process Display Controller			
Power supply	85 - 260VAC		
Display	LED / 4 x 20 mm High / Red / Adjustable Brightness		
Displayed Values	-999 - +9999		
Input	Current : 4-20mA		
Accuracy	0.1% @ 25°C One Digit		
Stability	50 ppm °C		
Outputs (option)	2 x Relays (5A) / 1 x Relay (5A) + 4-20mA		
Passive current output (option)	4-20mA / (Operating Range Max. 2.8 - 24mA)		
Operating temp	-40 - 158°F / (-40 - 70°C)		
Storage temp	-40 - 158°F / (-40 - 70°C)		
Protection class	NEMA 4X / IP67		
Case	Wall Mounted / Material - Polycarbonate		
Dimensions (WxNxD)	110 x 105 x 67 mm		

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Level pro[®]



Understanding Level Measurement

100 Series Submersible Level Sensor

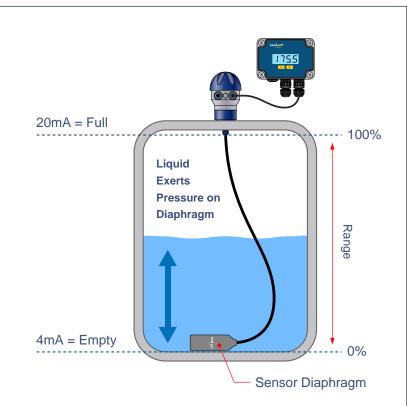
All Submersible Sensors have a Calibrated Range that is Based on H_2O that has a Specific Gravity or Density = 1

- 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 <u>Lowest Point</u> Normally this is when the Tank is Empty within the Tank

Empty = 4mA setting.

Full = 20mA setting.

3. **Full :** The Pressure being exerted on the sensor's diaphragm at the highest point Liquid Level within the Tank

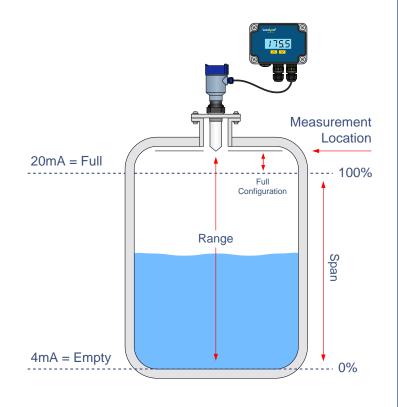


ProScan[®] 8000 Radar Level Sensors

- 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

Full Configuration = 20mA setting.

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





Getting Started

- Submersible Pressure Sensore 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 S.G (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 S.G < 1.0 are Lighter than H_2O i.e. Oil

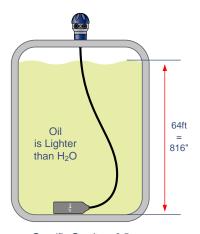
Liquids with a S.G > 1.0 are $\underline{\text{Heavier}}$ than H₂O i.e. Sulfuric Acid

 H_2O has a SG = 1.0

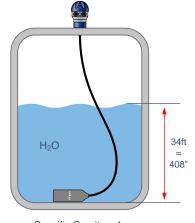
S.G < 1.0 Requires More Liquid to Equal the Same Pressure or Height as with H₂0.

S.G > 1.0 Requires Less Liquid to Equal the Same Pressure or Height as with H_20 .

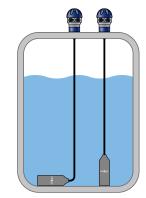
Here are some examples of how the submersible sensor range changes when submersed into liquids with different Specific Gravities

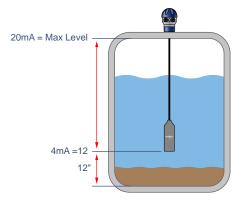


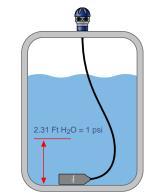
Specific Gravity = 0.5 Tank # 1

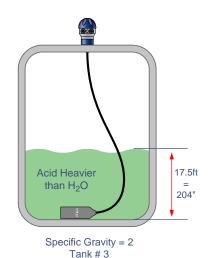


Specific Gravity = 1 Tank # 2











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 S.G or (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 Tank # 1 has a S.G = 0.5 which is Lighter thank that of H_{20}

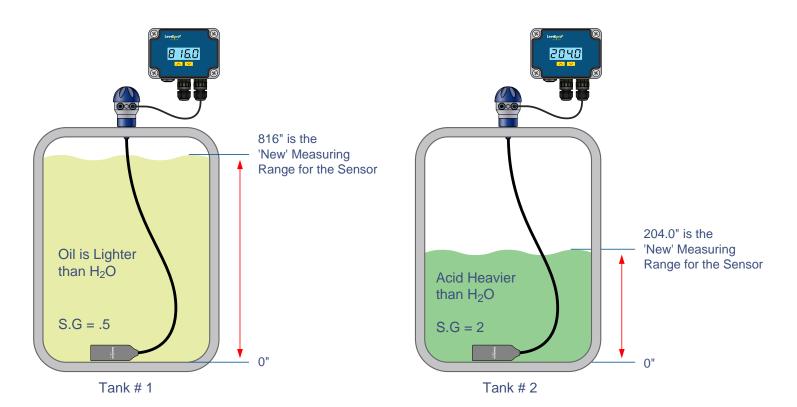
To determine the New Range of the sensor simply divide the H₂0 Range (34') by the S.G of the liquid that is going to be in the tank. S.G = 0.5 34/.5 = 64 feet or 816 inches

Since the oil is a lighter fluid than H₂0 the new measuring range of the sensor has increased and is now 64' or 816"

Example 2

The liquid in Tank # 2 has a S.G. = 2 which is 2X Heavier than H₂0

The 34' sensor is now going to be installed into a tank to measure a liquid with a S.G = 2 Range / S.G = New Range of the Sensor 34/2 = 17.5 feet or 204"



Oil <mark>S.G = 0.5</mark>	Sensor Signal	Display Reading
Tank 1 Empty	4.0mA	0"
Tank 1 Full	20.0mA	816"

Acid <mark>S.G = 2.0</mark>	Sensor Signal	Display Reading
Tank 2 Empty	4.0mA	0"
Tank 2 Full	20.0mA	204"

Correction Sensor Position

The **Submersible Level Sensor** is designed to operate while submerged in the actual application liquid. 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.



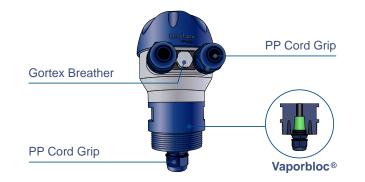
Installations where other tank requirements will cause the transmitter to move or swing.

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.

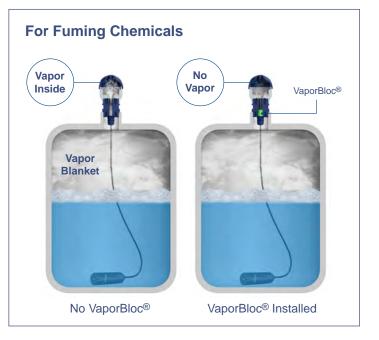
- Desition : The transmitter is not position sensitive.
- Mounting : The transmitter can be mounted via several methods. It can be suspended from the cable, it can be placed resting on the bottom of the tank in either horizontal or vertical orientation, or it can be attached to a pipe or hardwired using the LP100 conduit box on the top of the housing.
- 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 LP100 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.

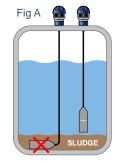
The inside of the function box must be clean, dry and free of moisture.



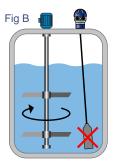
- ❑ Note: Use caution when connecting the cable within the junction box. A ventilation/reference tube is located within the cable. The purpose of this tube is to provide a comparison between current atmospheric pressure and the pressure that is being exerted on the sensing diaphragm within the tank.
- 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.

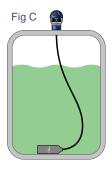


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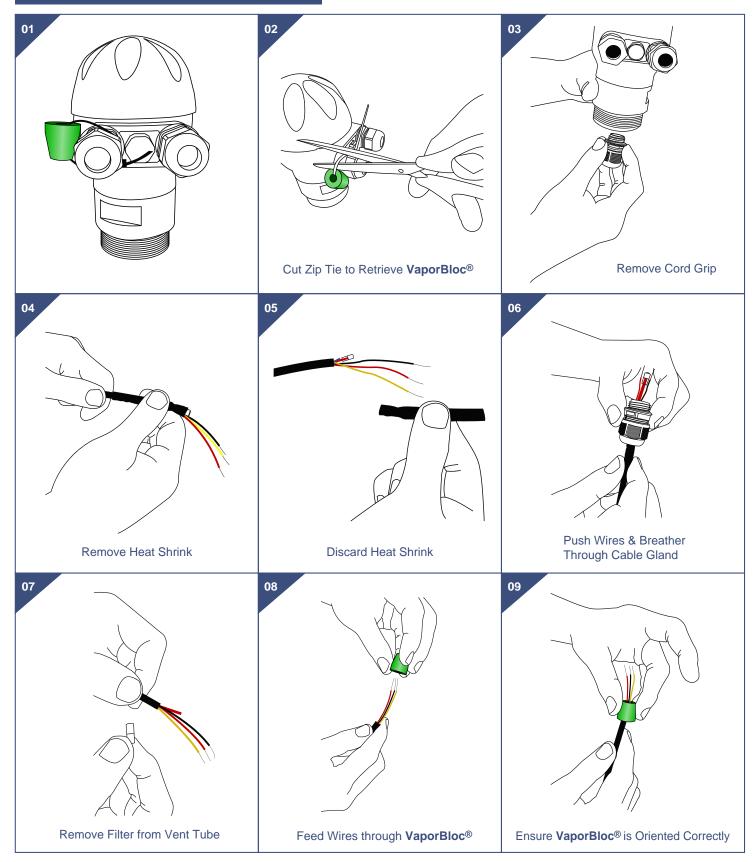
Levelor



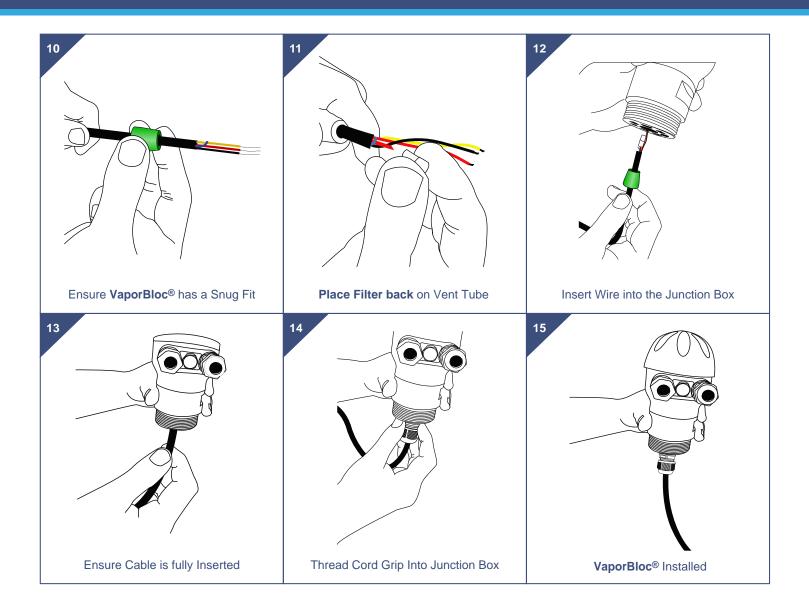




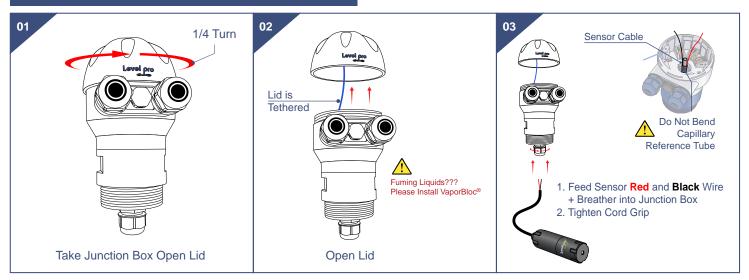
Sensor & Junction Box Installation



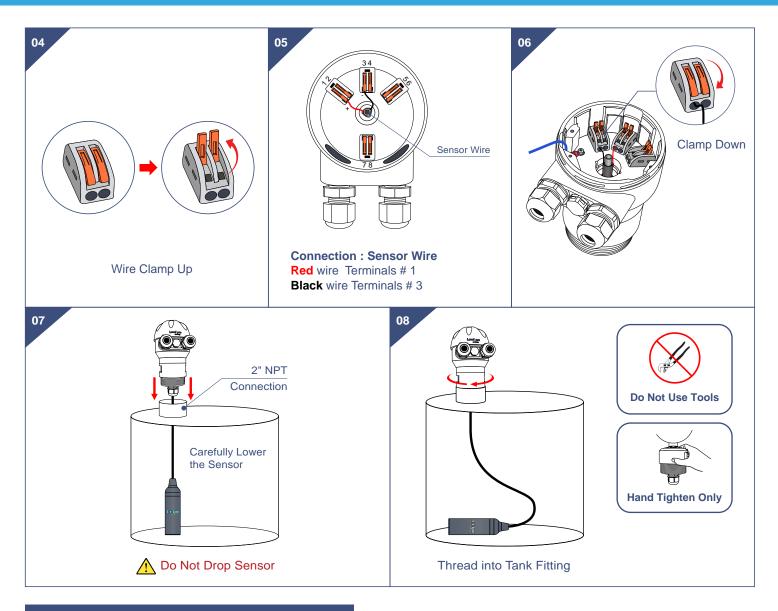




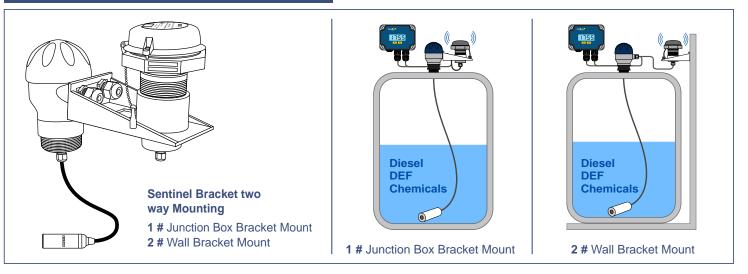
Sensor & Junction Box Wire Connection





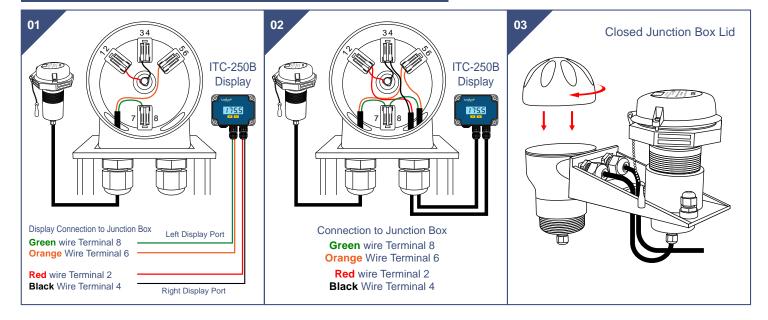


Sentinel LT Install & Wire Connection

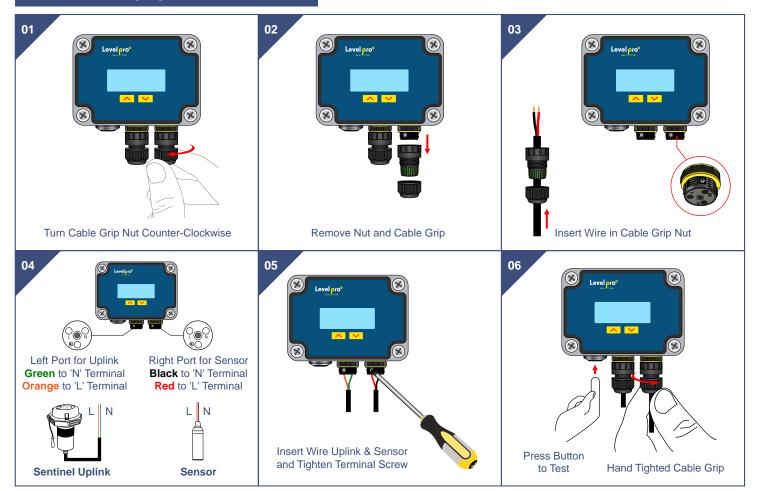




ITC-250B Display Wire Connection to Junction Box

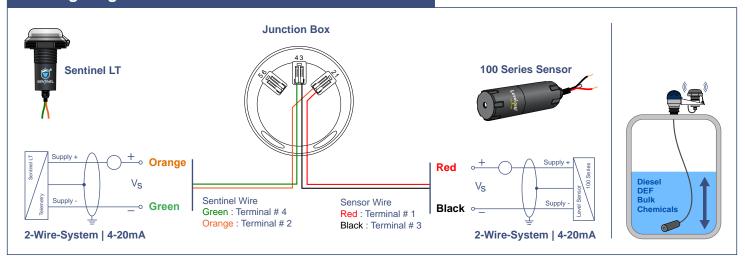


ITC-250B Display Wire Connection

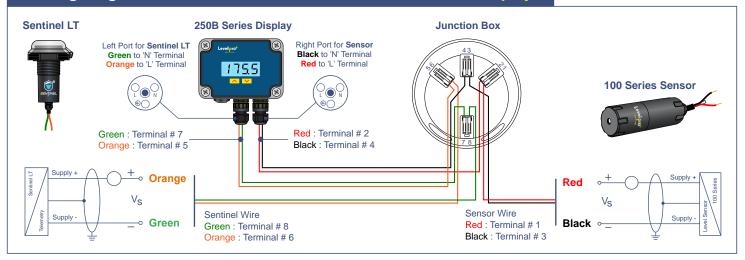




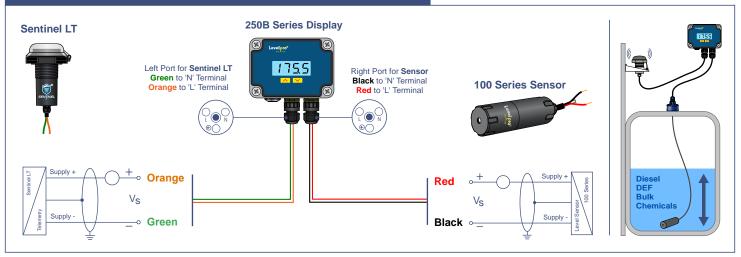
Wiring Diagram - Sentinel + Junction Box + Sensor



Wiring Diagram - Sentinel + Junction Box + Sensor + 250B Display

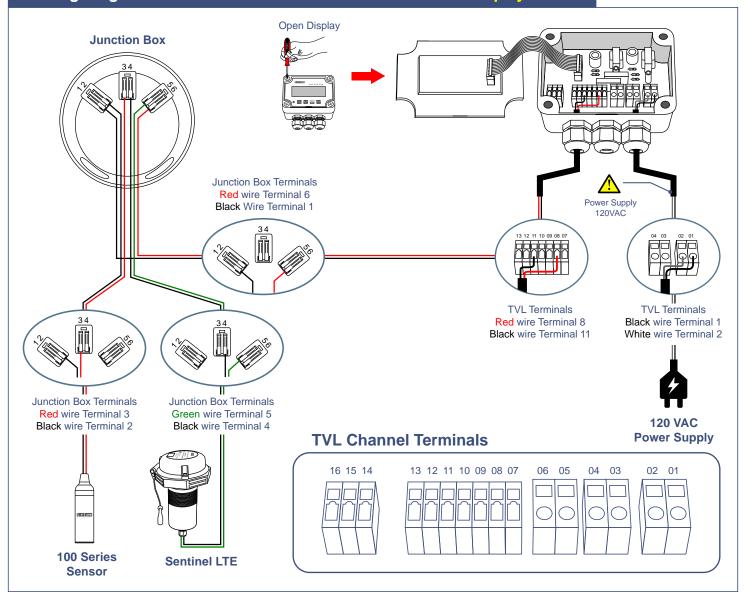


Wiring Diagram - Sentinel + Sensor + 250B Display

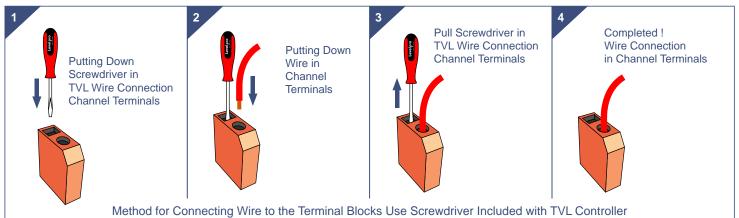




Wiring Diagram - Sentinel + Junction Box + Sensor + TVL Display

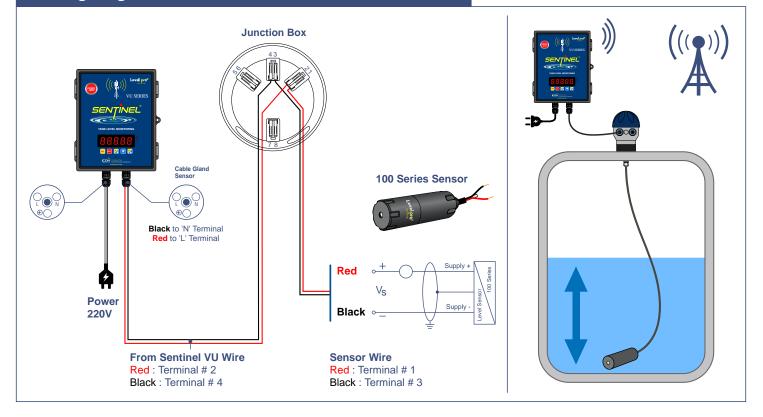


Wire Connection in TVL Channel Terminals

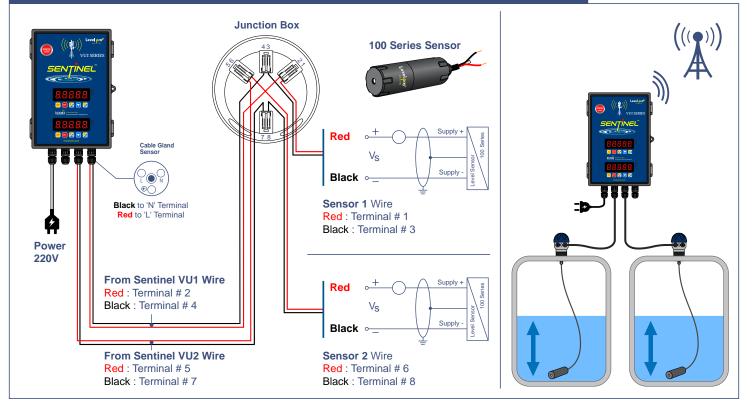




Wiring Diagram - Sentinel VU + Junction Box + Sensor

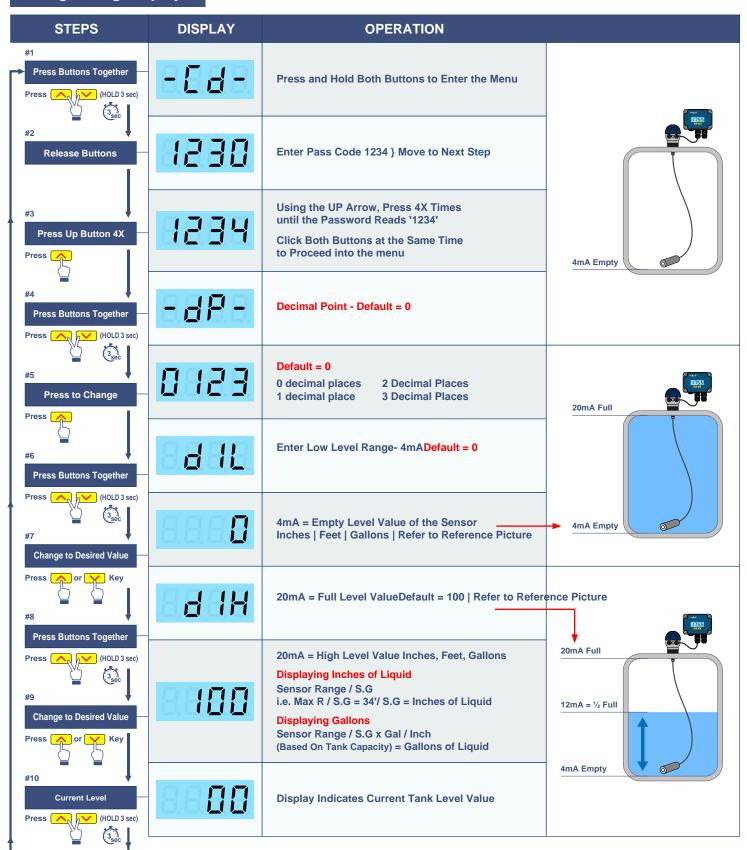


Wiring Diagram - Sentinel VU2 + Junction Box + Sensor (Dual Tank System)





Programing Display

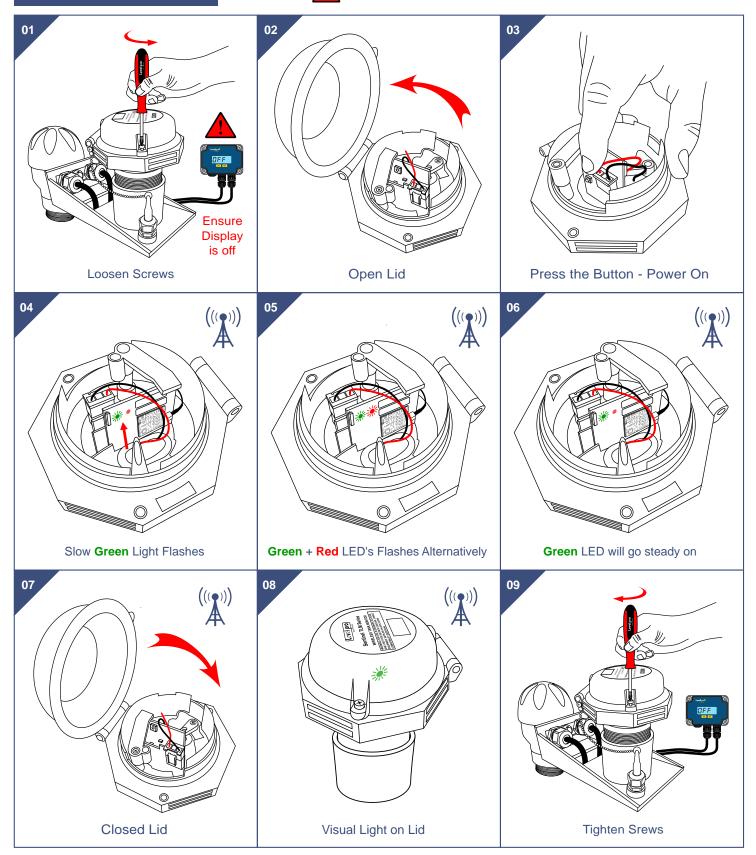


Press both buttons to Save High Level Value

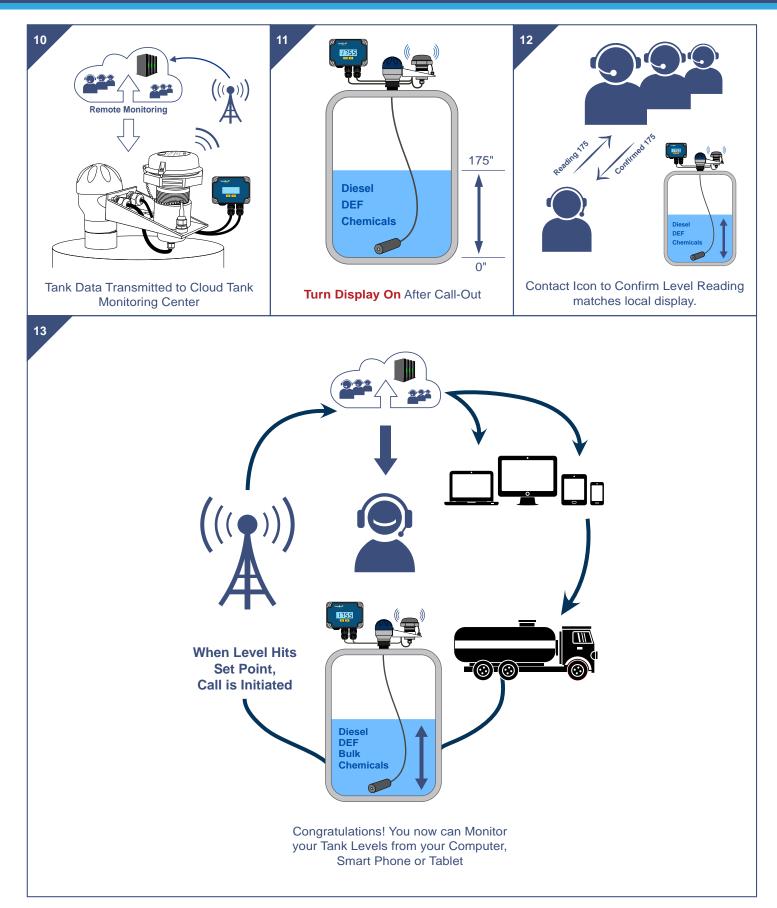


Push Button Call-Out

ENSURE DISPLAY IS OFF BEFORE INITATING CALL-OUT



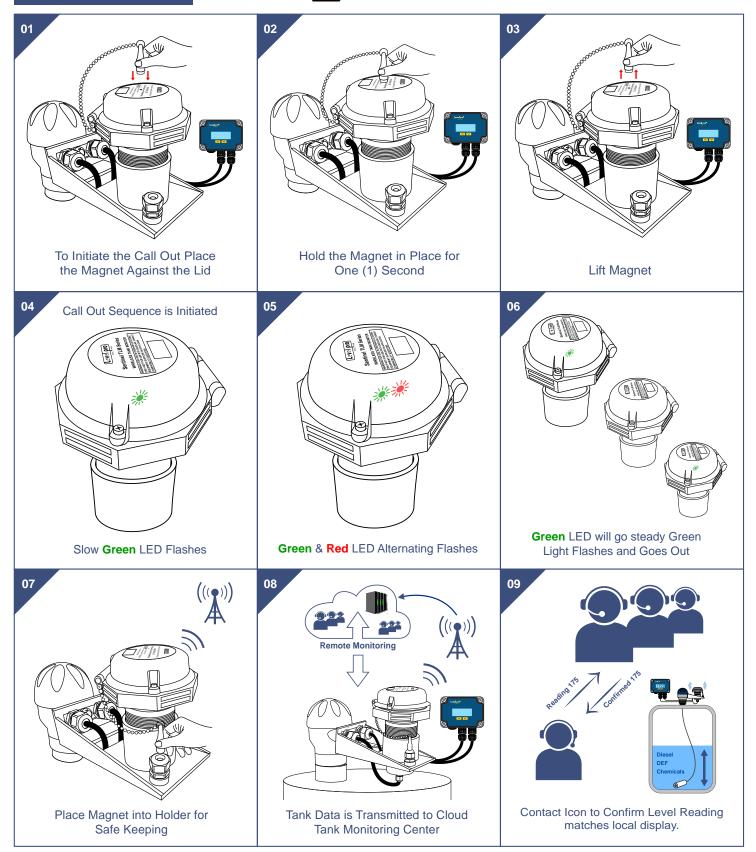






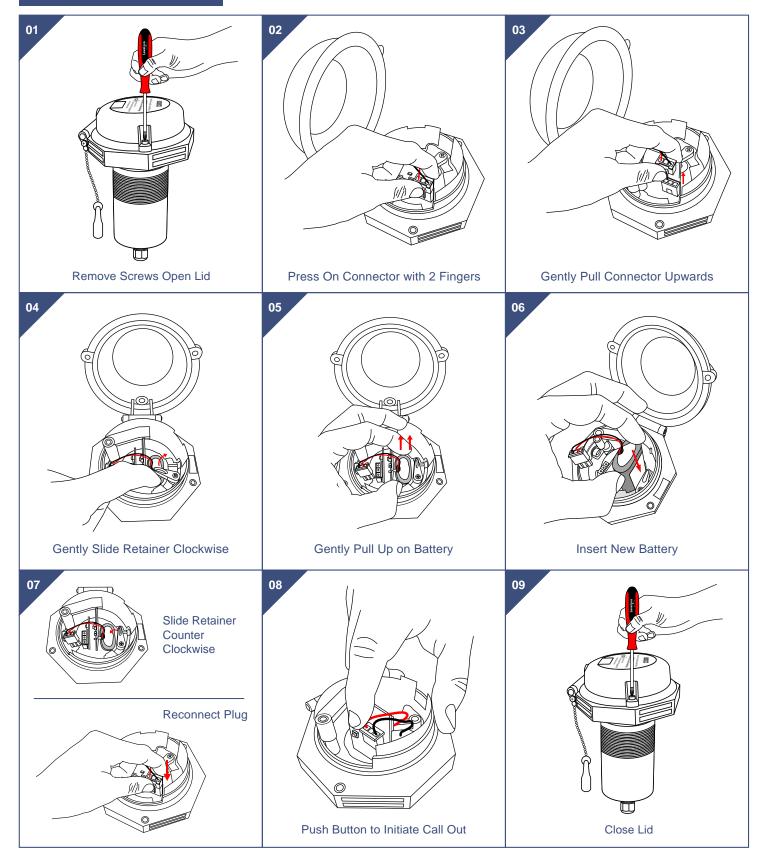
Magnetic Call-Out

ENSURE DISPLAY IS OFF BEFORE INITATING CALL-OUT





Battery Replacement





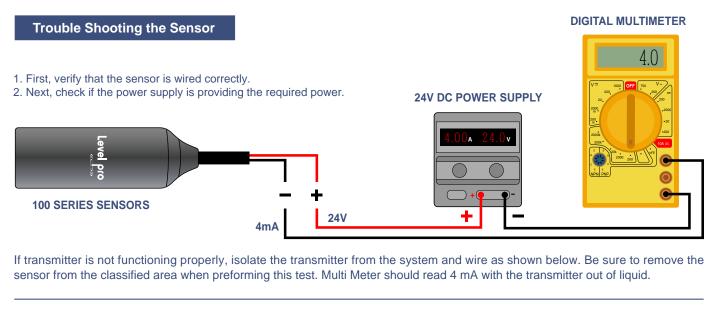
Application Details

Chemical	
Concentration	
Specific Gravity	
Temperature	
Solids : Yes No	
Out-gassing or Vapors : Yes No	
Tank Dimensions W x H inches :	Diesel
W = H =	DEF Bulk
Vertical : Horizontal :	Chemicals
Flat Bottom : Conical Bottom :	

Troubleshooting







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 Wiring
- Check Battery Status

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



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





Fumes Entering JB

Ensure Vaporbloc is Installed



- Always keep the cable termination clean, dry and free of moisture and prevent liquid from entering the vent tube
- Confirm Programming Input 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 H₂O

The Submersible Sensor Range is 34' is now going to be installed into a tank of Acid

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 H₂O so the Overall Sensor Range Has been reduced to 14.5 ft or 204 inches The 204 is Entered



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



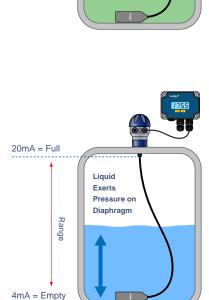


20mA = the High Tank Level Value of the Sensor. Inches | Feet | Gallons

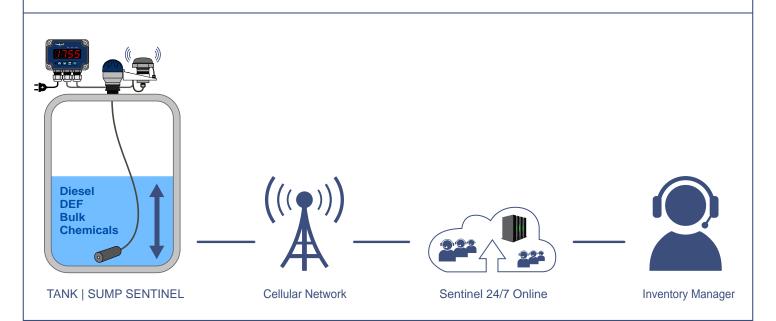
*This number is determined by dividing the max range of the sensor by the Specific Gravity

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

Display Gallons Range / S.G x Gal/Inch = Gallons



Acid Heavier than H₂O





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