

# Tank Water Level Sensor



## Description

The Tank Water Level Sensor from *Smart Box & GeoPortal* accurately measures the level of the water in a tank and communicates this information through our portal. The sensor benefits from self-calibration algorithms to adapt to changing environmental conditions.

## Operation

The water level is determined using a submersible hydrostatic pressure transducer by taking periodic pressure measurements from the bottom of the tank. The pressure is proportional to the height of the water above it. A vent tube within the cable corrects for barometric pressure changes.

It communicates readings at set intervals and reports the data to the portal, where the information is processed to show the water level. Different types of alerts (moderate, severe, critical) are generated to the users based on the water levels.

The sensor data is stored in the portal for analysis.

## Main Features

- Uses LoRaWAN technology
- Range of the wireless network: 5km
- RF communication: 915Mhz
- Replaceable battery with over 5 years lifespan
- Advanced digital temperature compensation
- Fits tanks, ponds, water vessels and wells
- Easy to install and maintain



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# Specifications

Transducer	
Cable length	5 m
Measuring range	0 - 4.5 m *
Fluid	Potable water **
Protection class	IP68
Operating temperature	-30 - 80 °C
Operating humidity	0-100% RH
Accuracy	0.25 %
Sensor	
Battery lifespan	5 years ***
Battery type	1 x 3.6V AA Lithium
Accuracy	± 0.2 °C
Sampling interval	10 minutes



## Integrated Solution for Remote Monitoring