

# AquaCheck

Wireless Ultrasonic Level Sensor.



Battery operated wireless LoRaWAN® ultrasonic level sensor to liquid level.



#### **Product Overview**

**AquaCheck** is a wireless battery-operated ultrasonic level sensor designed to measure the distance from the sensor to the surface of the liquid.

This intelligent device uses an ultrasonic sensor to measure the air height to the liquid surface and promptly transmits alarm notifications to the designated application via LoRaWAN® wireless communication protocol.

This enables users to remotely monitor the level status information.

#### **Product Features**











Lower Power Consumption and Battery Operated



Integration with Building Management System through protocol converters

### **Communication Technology**

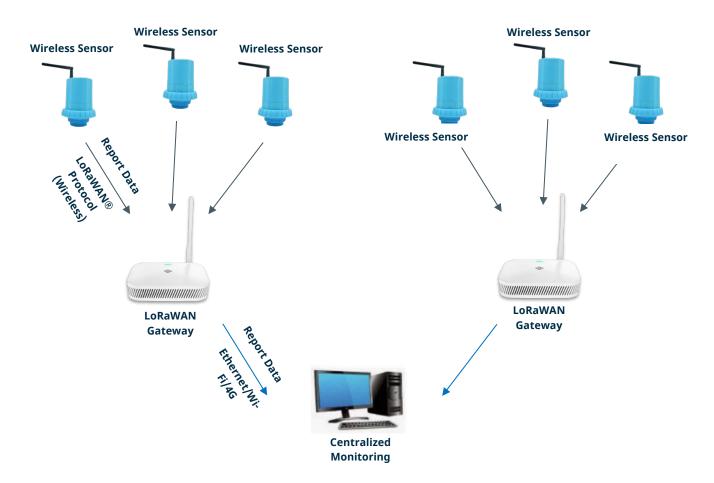
The **AquaCheck** battery-operated ultrasonic level sensor leverages advanced LoRaWAN® technology, ensuring low power consumption and long-range signal propagation for real-time control and monitoring.

Our smart gateway collects near real-time data from all wireless sensors within range, converts it into an easy-to-use JSON format, and publishes it via the MQTT protocol.

Data can be transmitted to any local or cloud MQTT broker through Ethernet, LTE (4G), or WIFI.



Integration to Building Management System (BMS) can be achieved using an external MQTT to BACnet converter.



## **Specifications**

General	
Operating temperature	-20 °C to +70 °C
Storage temperature	-40 °C to +85 °C
Power	Battery Powered or External Power Supply
Battery Type *	Non-Rechargeable ER26500 3.6V Lithium Battery, 8500
	mAh@3.6V
Battery Life*	3 Years (Upload 4 times per day)
IP Class	IP67
Dimension	122.5*95mm
Weight	500g
Housing Material	ABS



Housing Color	Blue	
Principle	Ultrasonic	
Range	5m	
Wireless Communication		
Technology	LoRaWAN®	
Frequency	EU868 (868 Mhz) license free	
Transmit Range	500m inside Building, 2KM Open Air	
Security	128 AES Encryption	
Antenna	External	
Data Transfer Rate	0.3Kbps- 50Kbps	
Data Format	JSON	
<b>Device Class</b>	Class A	
Activation Method	OTTA (Over-The-Air-Activation)	
Certifications		
Regulatory	CE	
Environmental	RoHS	