



Benefits:



Remote water level detection



Can set threshold for prevention of water overflow

Value-added

- 1. selective probes vary from 25 to 1000 cm for multiple applications
- 2. Device Tilt Status Monitoring
- 3. Temperature Monitoring
- 4. Two built-in 9000 mAh replaceable batteries
- 5. Ultra-long Battery Life up to 10 Years
- 6. IP67

ULTRASONIC DISTANCE SENSOR

This Sensor is a non-contact ultrasonic distance sensor designed for outdoor applications such as monitoring water level, fill level of tanks and silos, presence of objects, or snow level. With high protection IP rating and waterproof enclosure, this sensor can withstand harsh environments, and it can work up to 10 years with two 9000 mAh batteries..

Sensor implementations:



WATER TREATMENT



INDUSTRIAL WASTEWATER



INDUSTRIAL PROCESSES



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ULTRASONIC DISTANCE SENSOR



Ultrasonic Distance Sensor stands out as an advanced ultrasonic distance and level sensor tailored for external use, ideal for monitoring water levels. This sensor tailored for external use such as: Boiler expansion monitoring, Tracking fill levels in tanks and barns, Flood monitoring, Sewage level tracking, and more!

Technical Data

PARAMETERS	STANDARD VERSION	PRO VERSION
Range detection	C050: 25 ~ 500 cm C100: 25 ~ 1000 cm	W050: 30 ~ 500 cm W100: 50 ~ 1000 cm
Accuracy	$\pm (1+0.3\%*S)$ cm, S=distance (- 15°C ~ 60°C) ²	$\pm 1\%$ FS (- 30°C ~ 65°C)
Resolution	1 mm	
Device position	Normal/Tilt	
Operating temperature	- 30°C ~ 70°C	
Power supply	2 x 9000 mAh ER26500 Li-SOCL2 Batteries	
Battery life	> 10 years (10-min Interval, 25°C)	
Relative humidity	$\leq 95\%$ (Non-condensing)	
Ingress protection	IP67	
Dimension	118 x 65 x 80 mm	
Material	ABS + PC (Flame Retardant)	
Installation	On the Flat Surfaces with Screws	



LoRaWAN Parameters

PARAMETERS	ULTRASONIC DISTANCE SENSOR
Communication Protocol	LoRaWAN
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/ AS923-1&2&3&4
TX Power	16 dBm (868 MHz)/20 dBm (915MHz)/19 dBm (470MHz)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A

Implementation



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