





FEATURES

-  Precision ultrasonic sensor for accurate water level monitoring
-  Weatherproof and ultra-rugged IP67 Housing with compact and ergonomic design
-  Flexible Power Options- 3x AA Batteries with up to 7 years battery life or wired to permanent power
-  Built-in Battery Meter for remote Battery Life Monitoring and Remaining Life Predictions
-  High-precision GPS tracking
-  Extra inputs and outputs to add a rain gauge, temperature and humidity sensors or switched pump control

Yabby Ultrasonic Level Sensor

CELLULAR 2G OR 4G LTE-M / NB-IOT



OVERVIEW

Feature-rich battery-powered NB-IoT ultrasonic sensor for water level monitoring applications. Additional Rainfall, Temperature and Humidity Monitoring or On/Off Pump Control available.

APPLICATIONS

- Tank, Borehole and Trough Levels and Volumes
- Rainfall Monitoring
- Water Balance Assessments
- Evaporation and Infiltration Investigations
- Waterway Levels



SMARTS

CONFIGURABLE ALERTS	Configure email and sms alerts based on water level readings remotely from our cloud-based device management system.
ADJUSTABLE SAMPLING RATE	Adjustable sampling rate from once per day to every 30 minutes (Default = 6 Hours)
BATTERY LIFE MONITORING	Built-in Battery Meter for monitoring battery use and remaining life predictions
TRACKING MODE	Switch to Tracking Mode in the case of theft or loss

TECHNICAL SPECIFICATIONS

POWER

Power Supply	Built-in replaceable 3 x AA Lithium Batteries Optional external 5 - 16V DC power
Sleep Current	<10uA average current in lowest power configuration
Battery Life	Up to 7 years of battery life at once daily heartbeats /1-year battery life at once hourly heartbeats
Supported Battery Types	Lithium (LiFeS2) and Lithium Thionyl Chloride (LTC)

ULTRASONIC SENSOR

Level Accuracy	1% or better
Resolution	1cm
Range	20cm - 765cm
Compensated Temperature Range	-40 ~ +70 °C
Cable Length	1m (Other options on request)

MEMORY

Flash Memory	Store weeks of records if device is out of cellular coverage. Storage capacity for over 10 days of continuous 30-second logging
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PHYSICAL SPECIFICATION

Materials	Enclosure - ABS Polycarbonate Plastic Ultrasonic Sensor - ABS Polycarbonate Plastic
Dimensions	Enclosure - L135xW90xH35 mm Ultrasonic Sensor - 100 H x 43.8 Diameter mm
Weight	500g with 1m cable
IP Rating	Enclosure - IP67 rated housing Ultrasonic Sensor - IP67
Operating Temperature	-20°C to +60°C. For Operations at extreme temperatures use LTC Batteries

COMMUNICATION

Radio	NB-IoT/CAT-M1 Internal Antenna
GPS	Constellation Concurrent GPS / GLONASS Internal Antenna 167dBm industry-leading tracking performance
Security	AES-256 Encryption from device to server
Integration	Third-Party Integration Webhook, TCP or HTTPS

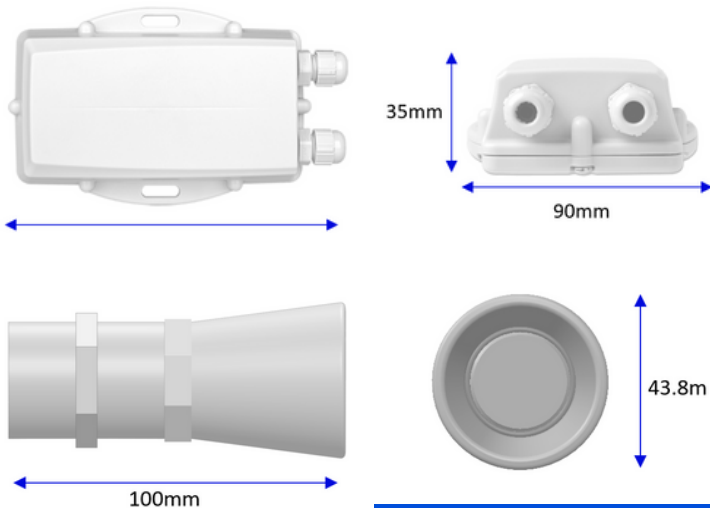
ADDITIONAL OPTIONS

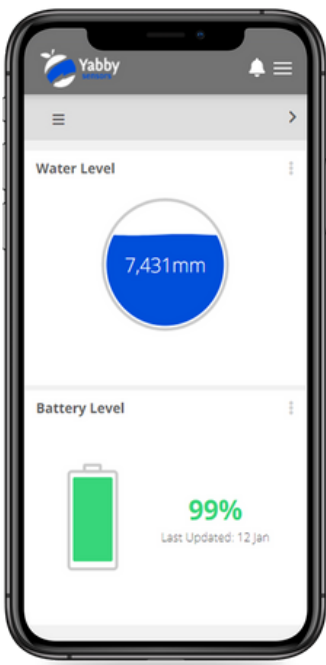
Rain gauge
Temperature & Humidity Sensor
Switched On/Off Pump Control

WARRANTY

One year manufacturer's warranty.

DIMENSIONS





Yabby Platform

FEATURES



Monitor environmental sensors and device locations and parameters



Configure sample rates, device outputs and variable alerts



Control device outputs such as pumps, valves and gates



Receive SMS or email alerts based on variable thresholds



Download device data as csv files and images

OVERVIEW

Yabby sensors are remotely monitored with our custom cloud based platform. Interrogate volume and level trends, change sampling intervals and set SMS and email alerts. Our platform is flexible and modular meaning we can set it up the way you like from our library of maps, charts, gauges and controls.

OTHER SERVICES

- Integrate other sensors to our platform
- White label the platform with your company branding
- Send your sensor data to third party platforms

