









**Yabby**  
sensors



## FEATURES

-  World's first floating nanosatellite water level sensor
-  Precision pressure transducer for accurate water level monitoring
-  Nanosatellite - retrieve data from anywhere on earth
-  Weatherproof and ultra-rugged IP67 enclosure
-  2x AA Batteries  
Up to 4 years battery life based on 2 signals a day
-  High-precision GPS/GLONASS tracking device

# Yabby Floating Level Sensor



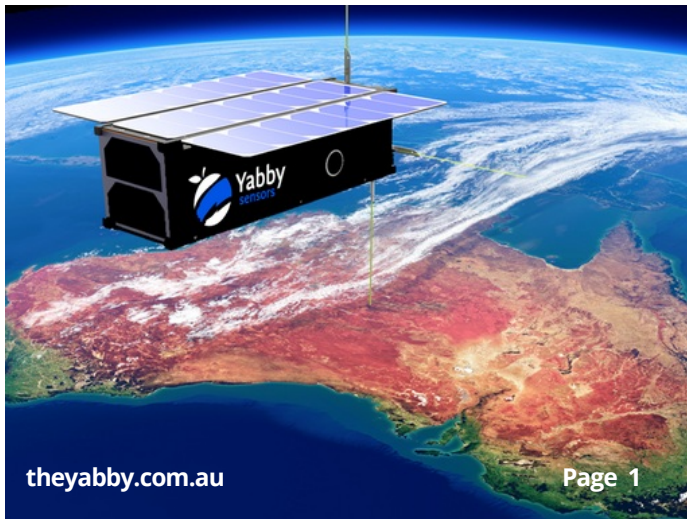
## Nanosatellite

### OVERVIEW

The remote nanosatellite floating level sensor is the only one of its type, with the ability to retrieve data from anywhere on earth. Delivered in partnership with Australian company Myriota ([www.myriota.com](http://www.myriota.com)) global leaders in low-cost, low-power, secure direct-to-orbit satellite connectivity for the Internet of Things.

### APPLICATIONS

- Dam and tank levels and volumes
- Evaporation, infiltration and water balance assessments



## **SMARTS**

<b>NANOSATELLITE</b>	Lower cost, faster to build and cheaper to launch than traditional satellites and can do almost everything a conventional satellite does. With these low barriers to entry, they are a cost-effective option for new technology.
<b>CONFIGURABLE ALERTS</b>	Configure email and sms alerts based on water level or rainfall readings remotely from our cloud-based device management system.
<b>TRACKING</b>	Weekly GPS location updates

## **TECHNICAL SPECIFICATIONS**

### **POWER**

<b>Power Supply</b>	Built-in replaceable 2 x AA Lithium Batteries
<b>Power Consumption</b>	Sleep 1.5 uA, MCU Processing 23 mA, Receive 34 mA and Transmission 380 mA
<b>Battery Life</b>	4 years based on two messages per day
<b>Supported Battery Types</b>	Ultimate Lithium Energizer

### **WATER LEVEL SENSOR**

<b>Level Accuracy</b>	5m Cable ±1.2cm 10m Cable ±2.5cm 20m Cable ±5.0cm
<b>Resolution</b>	5m Cable ±0.5mm 10m Cable ±1.0mm 20m Cable ±2.0mm
<b>Pressure Reference</b>	Vented Gauge
<b>Compensated Temperature Range</b>	0 ~ +60 °C
<b>Cable Length</b>	5m (Optional 10m, 20m and 30m on request)

### **RAIN GAUGE**

<b>Accuracy</b>	+/- 5 %
<b>Resolution</b>	1mm

## PHYSICAL SPECIFICATION

<b>Materials</b>	Enclosure - ABS Polycarbonate Plastic Water Level Sensor - Stainless Steel Rain Gauge - ASA
<b>Dimensions</b>	Enclosure - L150xW110xH40 mm Water Level Sensor - 110 H x 26.6 Diameter mm Rain Gauge - 37 H x 116 Diameter mm
<b>Weight</b>	##g with 5m cable
<b>IP Rating</b>	Enclosure - IP67 rated housing Water Level Sensor - IP68
<b>Operating Temperature</b>	-20°C to +60°C.

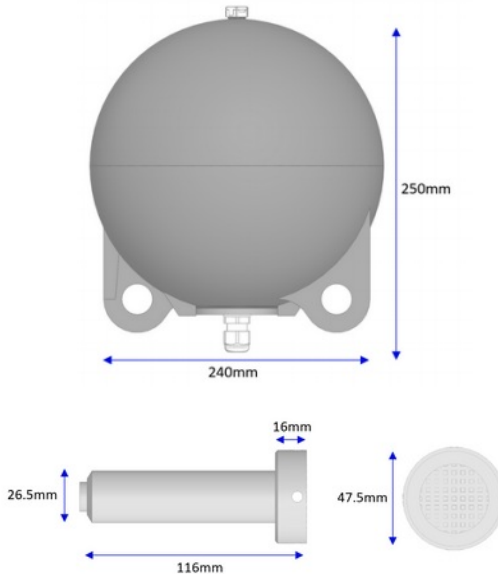
## COMMUNICATION

<b>Messages and Latency</b>	Myriota - 4 messages per day (90% of have a Latency of not more than 24 hours)
<b>GPS</b>	GNSS for geolocation and tracking
<b>Integration</b>	Third-Party Integration Webhook or HTTPS
<b>WARRANTY</b>	One year manufacturer's warranty.

## INSTALLATION

Packed in a sturdy pail bucket with all parts for installation, pre-setup and ready to install

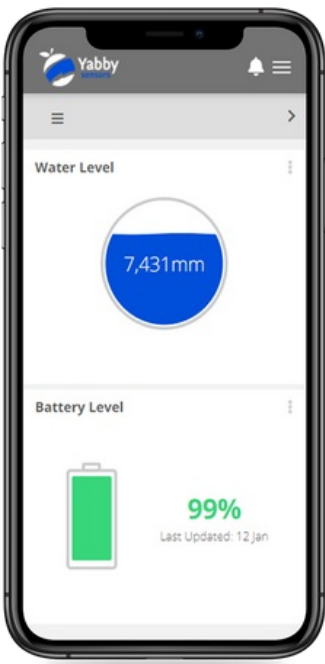
## DIMENSIONS





Included - packed in a sturdy pail bucket with all parts for installation, pre-setup and ready to install





# 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

