# HydroTerra

**Environmental Monitoring Specialists** 

### Yabby 2 Surface Water Low Latency Satellite IoT Sensor Hub

Yabby 2 is a powerful yet compact multicommunications enabled loT device designed specifically for remote environmental monitoring. Connect to any standard environmental sensor and transmit data from anywhere via Satellite. Multiple option for mounting including bracket and floating.

Environmental Monite

## Overview

The versatile device allows connection to all standard sensor types offering the ability to use across a wide variety of monitoring applications. The ease of use means that field installations can be completed in a fraction of the time of other systems offering significant cost savings and minimising risk by reducing time in the field.



Smart multi communications transmitter in one compact unit, making remote monitoring easy. Connect to any environmental monitoring sensor for transmission to DataStream.



Optional rechargeable internal pack OR long-life non-rechargeable internal battery providing flexibility for various monitoring scenarios including long-life deployments on solar or external battery pack or mid-length deployments powered by non-rechargeable lithium D-Cell.



Easily change settings, log time, transmission rate, alarms with OTA firmware updates onsite over the Iridium Satellite Network.



Simply activate Bluetooth by pressing the button and connect via our free mobile Android and Apple mobile app for all your device configuration requirements



Compact form factor 45mm x55mm x 120mm



by HydroTerra



Environment • Water • Geotechnical • Dat

Powered by EWS, through our official partnership



Yabby 2 - Integrated Sensors Examples







metrics



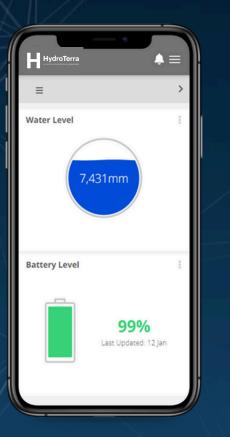
### (•) ANB Sensors

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### **HydroTerra Platform**

#### **FEATURES**



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Monitor environmental sensors and device locations and parameters

Configure sample rates, device outputs and variable alerts

Ϋ́ and gates

Control device outputs such as pumps, valves

Receive SMS or email alerts based on variable thresholds

Download device data as csv files and images

#### **OVERVIEW**

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



### **Specifications.**

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Clock			
RTC			
Accuracy	-10 to 70°C	20	70ppm
Network Time Sync Support			
Supported Networks	Iridium	Cellular	

External Sensor Inputs			
Serial - RS485 Modbus			
RTU			
Baud Rate	300	230400 Baud	
Parity	N/E/O		
Serial - SDI12			
Analogue - 4-20mA	(2)		
Current Loop			
Accuracy	0.5 %f.s		
Digital - Pulse counter	(2)		
Input Voltage	1	5V	
Frequency	3 kHz		

#### **Built-In Sensor Channels**

Barometer - Pressure			
Range	10	1200 mbar	
Accuracy	25° C, 750 mba	-1.5	+1.5 mbar
Barometer - Temperature			
Range	-40	85 ° C	
Accuracy	-0.8	+0.8 ° C	
Battery Voltage			
Supply Voltage			
Radio Signal Strength			
Microprocessor			
Temperature			



## Specifications.

Iridium	
Protocols	Short Burst Data
Coverage	Worldwide
4G Cellular LTE-M/NB-I	от
Protocols	MQTT
Email	
Network Support	Telstra (Aus) and most major networks globally
Coverage	4 million Sqr km
Bluetooth Support	
Division of the Change of State	5.0

Bluetooth Standard 5.0   Data Rate 2.S kbps		
Data Rate 2.S kbps	Bluetooth Standard	5.0
	Data Rate	2.S kbps

