Yabby sensors

FEATURES

- Two-way satellite connectivity operating in near real-time

- Typical latency <15 sec, 100 bytes

- Precision pressure transducer for accurate water level monitoring or Relay for pump switch

- Weatherproof and ultra-rugged IP67 enclosure

- Solar or directly powered from application

- High-precision GPS/GLONASS tracking device and built-in accelerometer

Yabby GEO Satellite Terminal

Geostationary Satellite (GEO)

OVERVIEW

With two-way satellite connectivity, the Yabby GEO Satellite Terminal is ideal for remotely monitoring and controlling fixed and portable assets used where access may be restricted, including pipelines, flow meters, pumps, generators and tanks

APPLICATIONS

- Dam, Tank, Borehole and Trough Levels and Volumes.
- Pump control and monitoring
- Rainfall Monitoring
- Water Balance Assessments

DATASHEET

SMARTS

GEOSTATIONARY	Two way communications with Industry-leading low latency of 15-60 seconds depending on message size. Ultra low power consumption,
CONFIGURABLE ALERTS	Configure email and sms alerts based on water level or rainfall readings remotely from our cloud-based device management system.
TRACKING	GPS location updates

TECHNICAL SPECIFICATIONS

Power Supply	Input voltage 9 to 32V
Power Consumption	Sleep 100 uA GPS Receiving 22 mA IDP Receive 65 mA Transmission 0.65 A
Satellite communication	Satellite service: two-way, Global, IsatData Pro From-mobile message: 6,400 bytes To-mobile message: 10,000 bytes Typical latency: <15 sec, 100 bytes Elevation angle: -5° to +90° Frequency: Rx: 1518.0 to 1559.0 MHz; Tx: 1626.5 to 1660.5 MHz; 1668.0 to 1675.0 MHz EIRP: <7.0 dBW
External interfaces	Inputs/outputs: 4 analog or digital in/out Serial: RS-232; RS-485
Environmental	Operating temperature: -40°C to +85°C Dust and water ingress: IP67 Vibration: SAE J1455 (Sec 4.9.4.2 fig 6-8); MIL-STD-810G (Sec 514.6) Shock: MIL-STD-810G (Sec 516.6) Dimensions 12.6 cm x 12.6 cm x 4.9 cm
Accelerometer	3-axis accelerometer
Memory	Lua Code RAM: 4MB Lua Code NVM: 6MB
Options	Side or bottom connector variants