

FlexSense™

A rugged, low-power satellite-connected sensor platform for industrial operations.



WHY PARTNERS CHOOSE FLEXSENSE

Build the solution, not the infrastructure. FlexSense gives you a ready-to-deploy foundation for turning your customers' sensing needs into real-world IoT solutions.



Global satellite connectivity

Get sensor data from locations beyond reliable cellular coverage without installing gateways or other local infrastructure.



Deploy, update and scale in the field

Install quickly, configure remotely and maintain devices without specialised tools, reducing the effort to manage distributed deployments.



Flexible sensor integration

Support multiple sensor types and protocols from one flexible platform, making it easier to build solutions across customers and industries.



Removes development burden

Start with a proven sensing platform and focus your engineering effort on the application, data and customer solution.



CONNECT OFF-THE-SHELF SENSORS DIRECTLY TO SATELLITE TO MONITOR:

- **WATER & AGRICULTURE:** Tank, bore and dam levels, pump status, livestock troughs, soil moisture and electric fence voltage
- **ENERGY:** Solar output, battery charge, generator run time, and LPG and diesel tank levels
- **OIL, GAS & MINING:** Wellhead and pipeline pressure, storage tank levels, gas leak detection and tailings dam monitoring
- **UTILITIES & INFRASTRUCTURE:** Sewer and stormwater levels, cathodic protection, remote substation alarms and bridge monitoring
- **ENVIRONMENT & HAZARD:** Weather and rainfall, river and groundwater levels, flood warning gauges and pest trap alerts

KEY FEATURES



Industrial-grade durability

Built to withstand harsh outdoor conditions, with a durable IP67-rated, UV-resistant enclosure and internal antenna.



5+ Year battery life

Long battery life helps reduce site visits and keeps remote deployments running for years.



Universal sensor support

Connect a wide range of sensors and devices, giving you the flexibility to build solutions for different applications.



Easy field updates

Update devices via Bluetooth or USB-C and replace batteries without specialised tools.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Communications	Myriota UltraLite Service 2 Satellite Network - secure and private low-power bi-directional D2O satellite connectivity
Dimensions (H x W x D)	198mm (includes antenna and cable relief) x 95mm x 47mm 7.8 inches x 3.7 inches x 1.9 inches
Field Update	Bluetooth Low Energy (BLE) using the FlexAssist mobile app (available for Android and iPhone) or USB-C using a PC
Temperature	Operational: -30°C to +70°C / -22°F to 158°F
Location Services	Integrated Global Navigation Satellite System (GNSS) for geolocation
Application Programming	Includes access to a library of configurable applications suited to specific use cases and sensor types. Custom applications can be developed by the Myriota Design Services team, or your in-house development team, using the Myriota FlexSense Software Development Kit (SDK) and Device API.
Cable / Connection	Comes standard with a 3m flying lead connection, customization options and connections available.
Regulatory Approvals	ACMA/RCM, FCC, Industry Canada, ENACOM, ANATEL
Environmental	IP67
Power Source	2x or 4x AA batteries, plus optional 12-24VDC external
Internal Expansion Header	I2C / LEUART / GPIO - for connection of daughter boards and new interfaces

CABLE INTERFACE

Direction	#	Type	I/O Type / Details
Input	1	Analogue	Configurable to be either 4-20mA, 0-5V or 0-10V
Bi-Directional	2	Digital I/O	Configurable to be either Digital IN, Digital OUT, or Pulse Counter
Bi-Directional	1	Serial	Configurable to be either RS-232, RS-485, or I2C
Power	1	Input	Optional 12-24VDC external power supply
Power	1	Output	25mA @ 5/12/24V - Configurable power output for external sensors