

MicroSpider2

Environmental

Advanced data logging and alarms for the toughest of environments

The **MicroSpider2 Environmental** is a cutting-edge, low-power telemetry and data logging system designed for demanding environmental monitoring applications. Housed in a rugged **IP68-rated enclosure**, it is built to withstand the toughest environmental conditions. Powered by lithium iron batteries, the MicroSpider2 can have a battery life of up to 8 years*, reducing the need for frequent maintenance.

*Based on an average of 1-hour logging periods, daily reports, and 1 alarm per week using the LTE Cat-M1 network. (increased reports will affect battery life)

The **MicroSpider2** is a highly flexible monitoring system with broad sensor compatibility and high data throughput, ideal for **environmental**, **agricultural**, and **industrial** applications. It enables seamless data collection and reporting across multiple variables.



Broad Sensor Compatibility

Designed to work with a vast array of sensor types, the MicroSpider2 supports:

- **Analog Sensors** – Measure a wide variety of environmental parameters.
- **SDI-12 Sensors** – Ideal for hydrological and water quality measurements.
- **Modbus RTU** – Seamlessly integrate with industrial systems.
- **GPS** – Add geolocation data to environmental measurements

How MicroSpider2 Works

1 Deploy & Install

Mount and install the MicroSpider in any environment. Connect your sensors to the MicroSpider2.

2 Connect & Configure

Web interface via wifi or ethernet, configure inputs, sensors, and communication settings locally via a PC.

3 Monitor & Report

Once installed, the **MicroSpider2** collects and transmits data from all connected sensors at custom set intervals or events.

4 Analyse & Optimise Data

Configure CSV reports for environmental tracking, compliance, and decision-making.



Applications



Environmental Monitoring

Track air quality, soil moisture, water quality, and other critical environmental factors.



Industrial & Water Treatment

Monitor equipment, energy consumption, and environmental compliance.



Research & Science

Ideal for scientific studies requiring high-quality, continuous environmental data.



Your Complete Environmental Monitoring Solution

Unmatched Input Flexibility

The MicroSpider2 Environmental supports a wide range of sensors, including **analogue**, **pulse**, **SDI-12**, and **Modbus**, allowing you to monitor various environmental parameters with ease.

Compact & Efficient

With its small footprint, the **MicroSpider2** fits into tight spaces and harsh environments while maintaining high performance and flexibility.

Low Power & Long Battery Life

The **MicroSpider2** offers low power consumption for long-term deployments, ensuring minimal maintenance and extended battery life making perfect for remote monitoring. Optional solar power kits can enhance field deployments for increased reporting.

Turn Inputs into Insight with Smart Calculations

MicroSpider lets you create **calculated values** from existing inputs using simple operations (e.g., $A11 - DI3$). This enables **virtual channels** for tasks like barometric pressure compensation, differential flow, or corrections, all without external processing or additional hardware.

Customisable Data Reporting

Schedule CSV exports at user-defined intervals (e.g., every minute, hourly, daily).

(Note: Shorter intervals impact battery life.)

Discover the MicroSpider Advatage

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