

HydroSpider2

Compact, Reliable Telemetry & Logging for Rain and Water Monitoring

The **HydroSpider2** is a rugged, low-power datalogger and telemetry device designed for **environmental and hydrological monitoring**. It supports a wide range of sensors and communication options, ensuring reliable performance in remote and harsh environments.

Engineered for simplicity, the **HydroSpider2** features a quick setup process, helping reduce ongoing operational costs. Housed in a compact **IP60-rated** enclosure, its small size and solar power compatibility makes it suitable for a variety of environmental and industrial monitoring applications including **TBRG** units.

**Based on an average of 1-hour logging periods, weekly reports, and 2 alarms per week using the LTE Cat-M1 network. (increased reports will affect battery life)*



TBRG Integration

The **HydroSpider2** was specifically designed to integrate effortlessly into **Tipping Bucket Rain Gauges (TBRGs)**, providing a compact, all-in-one solution for rainfall monitoring. By fitting entirely within the **TBRG** including the external battery, there is no need for an additional enclosure, dramatically reducing both **installation time and costs**.



How Hydrospider Works

- 1 Deploy & Install**
Deploy HydroSpider2 in the field, attaching your sensors and securing the unit in place.
- 2 Connect & Configure**
Configure locally using wifi or ethernet via web browser. No special software required.
- 3 Monitor & Report**
HydroSpider2 automatically collects and transmits data. Alarms can be set to notify you of critical changes, and reports are delivered on schedule.
- 4 Analyse & Optimise Data**
HydroSpider2 provides you with actionable data for decision-making, ensuring compliance and enhancing water management strategies.

Applications



Environmental Monitoring

Track rain, surface and groundwater levels and quality with precision.



Water Resource Management

Ensure sustainable water use and meet regulatory compliance.



Research & Science

Ideal for long-term water and rain monitoring in scientific studies and environmental projects.



Your Complete TBRG Solution

Quick & Cost-Effective Deployment

No need for bulky or expensive external enclosures. HydroSpiders compact, robust design ensures **minimal setup time** and **immediate operation** where it's needed.

Proactive Alerts & Monitoring

Monitor *surface and groundwater levels, temperature, and quality* with high-precision sensors. **HydroSpider2** has the capacity to store **over 300,000** records locally, with automatic report delivery via **SMS, email, DNP3 or FTP**.

Customisable Data Reporting

Choose from **4G, LTE-M1** or **NB-IoT**, ensuring reliable connectivity, even in remote areas with poor reception.

Compact & Durable

Set up automated **SMS** and **email** alerts for critical changes in rainfall or water conditions. Customisable reporting intervals to ensure data is delivered when you need it, whether that's daily, hourly or even during every event (*bucket tip*).

Multi-Sensor Compatibility

HydroSpider2s compact size makes it suitable for discreet installation inside of a **tip-ping rain bucket gauge**, reducing installation costs associated with rainfall monitoring solutions.

Discover the HydroSpider Advatage

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