



hydroSpider2

Economical, compact, flexible data logger and telemetry unit — built for long-term remote environmental monitoring.

Overview

The hydroSpider2 is a compact, low-power data logger and telemetry device built for long-term remote environmental and hydrological monitoring. Its small form factor makes it compact enough to fit inside a standard tipping bucket rain gauge with a small solar panel — no separate enclosure to source, dramatically lower installation cost. Connect your sensors, configure from any browser, and start receiving automatic reports and alerts over 4G or LTE Cat-M1 / NB-IoT. No complicated setups, no specialist software. From rainfall to water quality, the hydroSpider2 handles the full range of environmental monitoring reliably and automatically.

Key Features

Fits inside a rain gauge.

Compact enough to install alongside a small solar panel inside a standard tipping bucket rain gauge, eliminating the need for a separate enclosure.

Years of field operation.

Low-power design with built-in battery charger and solar panel support minimises maintenance visits.

Event-driven reporting.

Log and report on every bucket tip, alarm condition, or scheduled interval.

Connects virtually any modern sensor.

SDI-12 and Modbus RS-485 intelligent sensor interfaces (Modbus/SDI-12 variant).

Instant alerts.

16 configurable alarms with Super Alarm combination conditions; SMS and email the moment a threshold is exceeded.

Automatic reporting.

HTTP/HTTPS, FTP, and email delivery; data arrives without site visits.

Field-readable display.

Optional LCD and keypad for live values, counter resets, and channel offsets without a laptop — specify the cold-climate OLED display at time of order for sites exposed to low temperatures.

Configure from any device.

Browser-based setup via Wi-Fi (HLink) or Ethernet (LANlink); no software to install.

Typical Applications

Rainfall monitoring — log every tip from a tipping bucket rain gauge with event-driven reports and threshold alarms

Surface and groundwater level monitoring — continuous logging with scheduled reports and high/low level alarms

Environmental monitoring — SDI-12 or Modbus sensors for water quality, air quality, or soil conditions

Irrigation and bore monitoring — track pump run times, flow volumes, and water levels across remote sites

Agriculture — monitor rainfall, soil conditions, and water availability to support irrigation decisions

Specifications

Physical	
Dimensions	158(W) × 90(H) × 46(D) mm
Enclosure rating	IP60 — must be installed inside a weatherproof enclosure
Operating temperature	−20°C to +60°C
Warranty	12 months
Power	
Power supply	12V DC nominal, min 1A
Charger	Built-in for external 12V SLA battery (max 7.2Ah) and solar panel
Backup battery	9V internal (optional) — preserves date/time, counters, and alarm state on power loss; the unit does not log, alarm, or report while running on the 9V battery alone
Inputs	
Channels	Up to 20 configurable
Analogue inputs	2 (standard) / 1 (Modbus/SDI-12 variant)
Analogue sensor types	4–20mA, 0–2.5V (native); 0–20mA, 0–5V, 0–10V (with external conditioning resistor)
Digital inputs	2 (standard) / 1 (Modbus/SDI-12 variant) × switch, counter, event, meter
Intelligent interfaces	SDI-12 and Modbus RS-485 (Modbus/SDI-12 variant)
Outputs	
Total outputs	2 (standard) / 1 (Modbus/SDI-12 variant)
Switched Power Out	Max 1A (Control 1)
Open Collector	10mA nominal (Control 2) — standard variant only
Reporting	
Reporting protocols	HTTP/HTTPS POST, FTP, Email; DNP3 (paid software option)
Communications	
Mobile	4G; LTE Cat-M1 / NB-IoT
SIM card	Nano SIM
Local access	Ethernet via LANlink; Wi-Fi via HLink
Antenna	External blade antenna (self-adhesive) — supplied with the unit
Alarms	
Total alarms	16
Alert methods	SMS, email, DNP3, exception reports
Contacts per alarm	3 phone numbers; 3 email addresses
Software options	
LiveSMS	Extended SMS commands, remote access, alert escalation
DNP3	SCADA integration via DNP3 protocol
FlowShark Triton	Interface for ADS FlowShark Triton flow units



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Let's talk.
Contact us today



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