



Spider 2

Remote monitoring, control, reporting, and alarming — made easy.

Overview

Spider 2 is a compact, all-in-one remote monitoring and control logger built to handle any application. It monitors 8 inputs directly and hundreds more via Modbus smart inputs — connecting to PLCs, instruments, and third-party devices over RS-485 or Ethernet. It controls 8 relay outputs on a programmable timer, logs data, and sends SMS and email alarms — all from a single unit with no software to install.

4G, Ethernet, WiFi, solar regulator, and battery charger are all built in — no external modem, no solar regulator, no specialist software required. Configure everything through a web browser and access the unit from anywhere over 4G or the local network.

Key Features

All-in-one hardware

— 4G modem, battery charger, solar regulator, Ethernet, and web interface built in. No external modem, no solar regulator, no LAN adapter, no software to install.

Monitor and control from anywhere

— same browser interface whether on-site or connecting remotely over 4G or the local network. No app, no software.

Hundreds of Modbus inputs and outputs

— connect PLCs, instruments, and third-party devices via RS-485 Modbus (software option) or Ethernet Modbus TCP/IP (software option), extending the system far beyond the 8 native inputs and outputs.

Built-in UPS function

— connect a standard 12V SLA battery and the unit continues monitoring, logging, and alarming through mains outages automatically. No separate UPS hardware required.

Typical Applications

Building monitoring — monitor building services such as power, water, temperature, and access events without the cost and complexity of a full BMS system

Trade waste monitoring — continuous logging, scheduled compliance reports, and instant alarms for trade waste and environmental discharge monitoring

BMS and building system watchdog — independent secondary monitoring layer that sends alarms when the primary system misses a fault

Environmental monitoring and flood alert — standalone remote monitoring with SMS and email alarms, no site infrastructure required

Pump station monitoring and control — monitor pump status, levels, and flows; control pumps on a timer or from alarms; alert on fault conditions

Rural and remote site monitoring — low-power, solar-ready deployment with 4G reporting where there is no fixed infrastructure

OEM and system integrator solutions — panel-mount IP-20 form factor embeds inside any enclosure or switchboard; no software integration required

Specifications

Inputs

Native inputs	8 configurable — switch, analogue, counter, event, daily total, utility meter
Analogue types	4–20mA · 0–2.5V · 0–5V · 0–10V
Analogue resolution	12-bit, 2-point calibration
System inputs	Battery voltage · charger status · internal temperature

Outputs

Relay outputs	8 — voltage-free, latching relay contacts, 30V DC / 1A non-inductive
Output control	Timer-scheduled · browser · SMS · alarm-triggered
Alarms	16 user-configurable

Data Logger

Capacity	100,000 records
Storage	Non-volatile eMMC
Time resolution	1 second
Download format	CSV

Connectivity

Mobile	4G LTE (built-in)
LAN	Ethernet — local network and remote access
WiFi	802.11 b/g/n hotspot — on-site browser access without a cable
Modbus inputs	RS-485 (AUX1) — Modbus RTU · Ethernet — Modbus TCP/IP (both software options)
Modbus Server option	Modbus TCP/IP outputs over Ethernet — SCADA/BMS integration (paid add-on)
Data reporting	Email · FTP · SMS

Local Display

Display	16-character × 2-line backlit LCD
Operation	Single key — check inputs, outputs, alarms, network status on-site

Power

Input	16–30V DC — mains supply or solar panel direct
Battery	12V SLA, installer supplied — built-in UPS function

Physical

Dimensions (H × W × D)	200 × 110 × 90mm
Weight	650g (approx.)
IP rating	IP-20 — suitable for protected indoor locations
Mounting	Keyhole wall mount — 80 × 178mm centres
Part number	HSP-050



Full specifications, downloads & support
Scan the code or visit halytech.com.au/spider2

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Let's talk.
Contact us today



PHONE
+61 2 8814 5235



WEB
halytech.com.au



EMAIL
sales@halytech.com.au