

# Spider Data Logger

The Spider SMS is a compact low power data logger with telemetry. It is the complete remote monitoring, control and alarm system.

The Spider:

- requires no system integration or custom software
- can be set up by any computer and any operating system
- monitors 100's of inputs (analog, digital, counters, frequency, SDI-12, Modbus, RF and more ...)
- controls outputs
- generates SMS, e-mail and voice alarms
- responds to SMS commands
- logs (records) data
- sends data reports via e-mail or FTP
- communicates via integrated GSM/NextG/Satellite modem
- displays system/channel information on LCD

Once installed the Spider will log data and automatically send reports via e-mail or FTP. Any alarms can activate outputs, send SMS, email and voice alarm messages and trigger reports.

Every Spider has a built-in web server. It allows communication with most modern computers regardless of brand or operating system, without the need to install any software.



## features and benefits:

Proven Reliability - field proven for more than 10 years

Easy to use – simple familiar web browser interface

Easy to install

- Compact IP50 enclosure (optional IP65 powdered coating logger housing available)
- Internal battery charger
- Integrated mounting brackets
- No special software required
- setup and download using browser
- reports sent straight to your PC or server
- text/csv reports open in Excel
- receive reports via e-mail or FTP
- Large internal memory – local backup of data
- Expandable - expand up to 400 channels



## Inputs

Number of inputs:

- 8 multi-type inputs
- 3 system inputs
- 400 RF wireless channels (via WRX expansion module)
- 100+ Modbus inputs (via RS-485)
- 60+ SDI-12 Inputs (via RS-485)

Multi-type: Digital, analogue, counter, event (individually user definable)

Digital Inputs: Type 0 - 12V DC Voltage or voltage-free switch contact

Analogue Inputs: Resolution 12 bits

- 4 - 20 mA, common ground
- 0 - 1V, common ground
- 0 - 2.5V, common ground
- 0 - 5V, common ground
- 0 - 10V, common ground

Counter / Event Inputs

- Maximum pulse rate 10 Hz
- Range 0 - 99,999

System Inputs:

- Type System temperature
- Battery voltage
- Charger status

Modbus:

- 40 Devices
- 8 Registers per device

## Outputs

Number of outputs 8

- Latching Relay Contacts
- 1A 30V DC resistive

## Alarms

Alarms: 16 SMS + email + voice

Trigger: User definable input and trigger point

## Communication Interfaces

Ethernet 10 base-T RJ-45

Cellular phone module Built-in GSM or NextG

Antenna: external

Internet connectivity: GPRS or 3G (modem type and network dependent)

RS-232 Serial Interface

RS-485 Multi-dropped, Multi-point Serial Interface

## Physical

Dimensions: (approx) 110 (W) x 200 (H) x 85 (D) mm; Weight (approx) 800g

Enclosure: ABS rated IP - 50 with integrated mounting. Powdered coating IP66 rated housing available

Operating temperature: -5 to +50 degrees Celsius (-20 to +70 degrees on request)

## Logger

Capacity: approximately 25,000 records

Storage memory: Battery backed RAM

Time resolution: 1 second

Download format: CSV file

Built-in Sealed Lead Acid battery management system. P

Power Source: mains charger or Solar panel