

MicroSpider Data Logger

The microSpider Industrial is a complete data logging and telemetry system. It includes all software, hardware, backup battery and a built-in mobile phone module. The enclosure fits standard DIN rail brackets.



The microSpider Industrial can

- monitor inputs (analogue, digital, counters, frequency, quadrature/shaft encoder)
- control outputs
- generate SMS, email and twitter alarms
- record data
- send data via e-mail or FTP
- communicate via internal GSM/NextG/LAN module
- be used in wet environments
- operate for more than 5 years on its replaceable internal battery
- update software automatically in-field from remote servers, or update from connected PC.

The microSpider Industrial is ideal for long term monitoring and can interface with a wide range of sensors and meters. The browser interface makes it easy to set up and test. It can be powered from 12V DC.

The microSpider Industrial logs data and automatically sends reports via email or FTP. Any alarms can activate outputs, send SMS and email alarm messages as well as historical reports.

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



Inputs

Number of inputs:

- 4 multi-type
- 4 system inputs

Multi-type: Digital, analogue, counter, event, quadrature/shaft-encoder (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

- Minimum pulse width: 10ms;
- Range: 0 - 999,999

System Inputs:

- System temperature
- Battery voltage

Outputs

Number of outputs 3

- 1 x open collector
- 1 x high side power switch
- 1 x low voltage power supply (3.3V/5V selectable)

Alarms

Alarms: 8 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: internal antenna - standard, external antenna - option

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.

Power Source: mains charger or Solar panel