

microSpider *lite*TM

Compact 4G low power logging and alarm system

Halytech **microSpider lite** is an ultra low power multi-channel data logger capable of controlling outputs, generating alarms and automatic reporting. Its compact IP68 enclosure houses all components including long life batteries and modem, making it suitable for installation in confined spaces. The **microSpider lite** can communicate via SMS, email, internet and more.

The "M" variant features even lower power consumption by utilising the latest LTE Cat M1 / NBIoT communication technology.

The **microSpider lite** has an easy to use web interface with built in help. It can be used with most computers and operating systems without the need to install any software.

Features

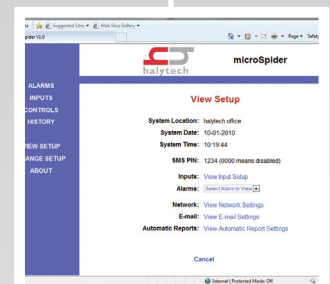
- Complete system includes:
 - Compact IP 68 enclosure with built-in mounting system
 - Standard configuration: 2 analogue + 2 digital multi-type inputs
 - Modbus Option: up to 16 Modbus + 1 analogue + 1 digital input
 - 2 digital outputs for sensor / accessory control
 - Programmable low power sensor power supply
 - Ethernet Interface
 - Integrated LTE (4G) or LTE Cat M1 / NBIoT modem
 - Internal or external antenna
 - Huge 400,000 record non-volatile data memory
- User configurable inputs, outputs and alarms
- Connects to any computer, smart phone or tablet through Wi-Fi or Ethernet
- Download data as a CSV file compatible with Excel
- Alarms via SMS / email / Twitter
- Automatic CSV reports via email / FTP / HTTP
- Ultra low power design - up to 10 year life with built-in batteries
- Simple and inexpensive to install - no external enclosures, batteries or solar panels
- Optional direct remote access from any PC, tablet or smart phone
- Enterprise level management - automatically manage 1000's of microSpider lite
- Optional DNP3 protocol support
- Designed and manufactured in Australia

Typical Applications

- Automatic Meter Reading (AMR)
- Environmental Monitoring
- Agriculture
- Traffic Monitoring
- Water Treatment
- Irrigation and Bore Monitoring



Complete Compact Unit



Simple Access With Any Browser



Remote Deployment
Built-in LTE (4G)



Specifications

General

Dimensions (approx)	165(W) x 80(H) x 85 (D) mm
Weight (approx)	800 g
Enclosure rating	IP - 68
Enclosure material	ABS
Mounting system	Integrated into enclosure
Operating temperature	-5 to +50 degrees Celsius
Factory warranty	12 months parts and labour return to base

Power Supply

Battery	Integrated long life lithium batteries with up to 10 years battery life (depending on application) Optional second battery pack
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Inputs

Standard inputs	Up to 2 analogue + 2 digital + 3 system inputs
Modbus Option	Up to 16 Modbus + 1 analogue + 1 digital + 3 system inputs
Input names	User definable
Connector	Waterproof - custom mating leads available

Analogue Inputs

Resolution	12 bits
Calibration	2 - point, 1-point or manual
Units of measure	User definable
Sampling period	User definable, 1 second minimum
Type	4 - 20 mA with external resistor 0 - 2.4V, common ground 0 - 5V, common ground 0 - 10V, common ground

Digital Inputs

Input range	0 -12V DC Voltage or voltage-free switch contact
Type	User selectable: switch, event (rainfall), counter, utility meter, quadrature, difference

Counter / Event Inputs

Minimum pulse width	5 ms
Maximum frequency	100 Hz
Range	0 - 999,999

System Inputs

Type	System temperature Battery voltage Internal moisture sensor
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Outputs

Number of outputs	2
Type	1 x Open collector for accessory control 1 x Low power sensor supply (3.3V or 5V)
Output names	User definable
Output control	Via browser, alarms and/or sensor warmup
Connector	Waterproof - custom mating leads available

Alarms

Number of alarms	16
Type	SMS, email transmission and/or Twitter
Trigger	User definable input and trigger point
SMS / email text	1 per alarm, user definable
# of phone numbers	3 per alarm, user definable
# of email addresses	3 per alarm, user definable
Alarm names	User definable

Logger

Capacity	approximately 400,000 records
Storage memory	Non-volatile FLASH
Time resolution	1 second
Time synchronisation	Automatic by NTP
Report format	CSV file
Automatic reporting	Directly to user by e-mail / FTP / HTTP

Communication Interfaces

Ethernet	10/100 base-T with LANlink Cable
Mobile communications	Standard model - built-in LTE (4G) "M" model - LTE Cat M1 /NBIoT
Antenna	Internal antenna or optional external antenna
Internet connectivity	Mobile communications LAN (with LANlink Cable)

Optional Assesories

HLink Wi-Fi Interface
LANlink Cable
Spare Battery Packs
Custom Input and Output Cables
Universal Pipe Mounting Bracket

All specifications are subject to change without notice. Published 20 May 2023.



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