microSpider lite

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 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.



Complete Compact Unit

Features

Complete system includes:

Compact IP 68 enclosure with built-in mounting system

2 analogue + 2 digital multi-type inputs

2 digital outputs for sensor / accessory control

Programmable low power sensor power supply

Ethernet Interface

Integrated LTE (4G) with 3G fallback or LTE Cat M1 modem

Internal or external antenna

Huge 400,000 record non-volatile data memory

- User configurable inputs, outputs and alarms
- Connects to any computer with a browser and LAN port
- 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



Browser



Remote Deployment Built-in LTE (4G)

Typical Applications

- Automatic Meter Reading (AMR)
- Environmental Monitoring
- Agriculture

- Traffic Monitoring
- Water Treatment
- Irrigation and Bore Monitoring



Specifications

General

Dimensions (approx) 165(W) x 80(H) x 85 (D) mm 800 g IP - 68 Weight (approx)

Enclosure rating ABS **Enclosure material**

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

Inputs

Standard inputs Up to 2 analogue + 2 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 4 - 20 mA with external resistor Type 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

User selectable: switch, event (rainfall), Type counter, utility meter, quadrature, difference

Counter / Event Inputs

Minimum pulse width 5 ms

100 Hz **Maximum frequency**

0 - 999,999 Range

System Inputs

Type System temperature

Battery voltage

Internal moisture sensor

Outputs

Number of outputs

1 x Open collector for accessory control Type 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

SMS, email transmission and/or Twitter Type 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

User definable Alarm names

Logger

approximately 400,000 records Capacity

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

Mobile communications

Antenna

Internet connectivity

10/100 base-T with LANlink Cable

Standard model - built-in 4G with 3G fallback

"M'" model - LTE Cat M1 Standard - internal antenna Optional - external antenna Mobile communications

LAN (with LANlink Cable)

Optional Assesories

LANlink Cable **Spare Battery Packs**

Custom Input and Output Cables Universal Pipe Mounting Bracket

All specifications are subject to change without notice. Published 8 November 2018.







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