

Ultra low power compact telemetry, logging and alarm system.

Halytech **microSpider2 Environmental** is an intelligent, complete solution for monitoring inputs, controlling outputs, alarm dialing and data logging. The **microSpider2** can communicate via SMS, email, internet, low cost satellite and more.

The **microSpider2 Environmental** is housed in a compact IP68 environmental enclosure that includes long life primary batteries. Installation costs are dramatically reduced as there is no need for external power supplies or enclosures.

The **microSpider2 Environmental** has an easy to use web interface with built in help. It can be used with any computer or operating system without the need to install any software.

Features

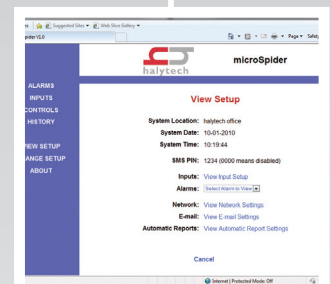
- Complete system includes:
 - Compact IP 68 enclosure with built-in mounting system
 - 4 analogue + 4 digital multi-type inputs
 - 2 digital outputs for sensor / accessory control
 - Programmable low power sensor power supply
 - Ethernet Interface
 - Integrated 4G, 3G or Satellite modem
 - Internal 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
- 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
- Remotely upgradeable software
- Enterprise level management - automatically manage 1000's of microSpiders
- Optional external intelligent sensors: SDI-12, Modbus, GPS
- Optional DNP3 protocol support
- Designed and manufactured in Australia

Typical Applications

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



Complete Compact Unit



Simple Access With Any Browser



Remote Deployment
Built-in 3G or satellite comms

Specifications

General

Dimensions (approx)	165(W) x 145(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
External power	Nominal 12V DC

Inputs

Standard inputs	Up to 4 analogue + 4 digital + 6 system inputs
Optional inputs	Up to 20 SDI-12, Modbus, GPS
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	Calibrated 4 - 20 mA, common ground 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

Counter / Event Inputs

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

System Inputs

Type	System temperature 2 x battery voltage External power voltage LAN power voltage Internal moisture sensor
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Outputs

Number of outputs	3
Type	1 x Switched power for sensor power / control 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 and/or FTP

Communication Interfaces

Ethernet	10/100 base-T with LANlink Cable
Mobile communications	Built-in 4G, 3G or Iridium satellite
Antenna	Standard - internal antenna Optional - external antenna
Internet connectivity	4G, 3G, LAN (with LANlink Cable)

Optional Assesories

LANlink Cable
SDI-12/Modbus Interface
GPS Interface
Spare Battery Packs
Custom Input and Output Cables

All specifications are subject to change without notice. Published 9 November 2018.



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