



Spider 2 AMR



Wireless and wired automatic meter reading for water, gas, and electricity.

Overview

Spider 2 AMR reads water, gas*, and electricity meters wirelessly and via wired connections — collecting, logging, and reporting data back to you and your systems.

A single base station covers up to 24 floors with repeaters, or hundreds of metres wirelessly across a site, with no cable runs between meters and the base station. It also connects smart meters and Halytech RIMs via wired inputs — all on the same system. Data is delivered in open CSV format with no ongoing subscription fees.

Key Features

No trenching, no cable runs

— retrofits into existing buildings and scales across large sites without cabling between meters and the base station.

Up to 400 wireless meter points from one base station

— covers an entire high-rise (24 floors with repeaters) or campus; wired RIMs add up to 320 more.

One system for all meter types

— water, gas*, and electricity; wireless, wired, and smart meters on the same base station.

Low running cost

— all meters report through a single base station on one mobile account, not a separate SIM and data plan per meter.

Complete base station

— logger, battery, power supply, and antennas pre-installed in an IP66 enclosure.

You own your data

— email, FTP, or CSV reporting with no ongoing subscription fees.

Typical Applications

Utility billing — individual water, electricity, and gas* consumption per apartment, tenancy, or cost centre; bill on actual use, not estimates or shared costs

Large building and campus metering — cover an entire high-rise (up to 24 floors with repeaters) or multi-building campus wirelessly from a single base station

BMS and facilities integration — data feeds to building management systems and facilities platforms via FTP or email; optional Modbus TCP/IP over LAN for direct BMS and PLC integration

Typical sites: Shopping centres · High-rise apartments · Commercial towers · Education campuses · Hospitals · Airports · Industrial sites · Golf courses

* Gas metering installations require appropriate safety approvals and hazardous area requirements where applicable.

Specifications

Inputs

Native inputs	Up to 8 — analogue (voltage/current) or digital (counter/switch)
Wireless inputs	Up to 400 (100 transmitters × up to 4 inputs each)
Wired expansion	Up to 320 wired inputs via Halytech RIMs
3rd party Modbus	Any RS-485 or Ethernet Modbus device eg smart meters

Wireless

Frequency	433MHz spread spectrum frequency hopping
Range to transmitter	Up to 450m line-of-sight / 4 floors, from base or repeater
Range to high-gain repeater	Up to 600m line-of-sight / 5 floors, from base or repeater
Range — transmitter-as-repeater to transmitter	Up to 300m line-of-sight / 3 floors
Maximum repeaters per signal path	3 in series between base station and transmitter
Transmitter battery life	Up to 7 years, once-daily readings. Potted units up to 5 years

Connectivity

Mobile	4G LTE Cat 1
Data reporting	Email, FTP, CSV files
Logger capacity	100,000 records
LAN	Ethernet — local network access
WiFi	802.11 b/g/n hotspot — on-site browser access
Modbus TCP/IP over LAN	Optional. For BMS, SCADA, PLC and similar systems

Power

Mains supply	90W
Backup battery	12V 7.2Ah SLA (internal)
Solar	Solar panel input supported in place of mains supply

Enclosure

Dimensions (H × W × D)	400 × 300 × 150mm
IP rating	IP66
Material	Steel, epoxy-polyester powder coat
Mounting	Wall-mount via supplied brackets
Assembled weight (approx.)	10–15 kg

Models

HAM-050	Base station, wired inputs only. For RIM installations with no wireless
HAM-051	Base station, wireless and wired inputs. For sites with wireless transmitters
Modbus Server option	Add-on for either model. Modbus TCP/IP over LAN for BMS, SCADA, PLC and similar systems



Full specifications, downloads & support

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HALYTECH

Let's talk.
Contact us today



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