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 960 wired inputs via Halytech RIMs
3rd party Modbus	Any RS-485 or Ethernet Modbus device — smart meters, energy meters, process instruments

Wireless	
Frequency	433MHz spread spectrum frequency hopping
Range — base to transmitter	Up to 450m line-of-sight / 4 floors
Range — base to high-gain repeater	Up to 600m line-of-sight / 5 floors
Range — high-gain repeater to high-gain repeater	Up to 600m line-of-sight / 5 floors
Range — high-gain repeater to transmitter	Up to 450m line-of-sight / 4 floors
Range — transmitter-as-repeater to transmitter	Up to 300m line-of-sight / 3 floors
Maximum repeaters per signal path	3 (base station → repeater 1 → repeater 2 → repeater 3 → transmitter)
Transmitter battery life	Up to 7 years (once-daily readings)

Connectivity	
Cellular	4G LTE
Data reporting	Email, FTP
Data format	CSV
LAN	Ethernet — local network access
WiFi	802.11 b/g/n hotspot — on-site browser access
SCADA integration	FTP / email reporting; optional Modbus TCP/IP over LAN

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