



METERMADE® R2

Radio telemetry interface for industry-standard flow meters



Turn-key terrestrial radio telemetry solution for leading flow meters

- 900 MHz FHSS terrestrial radio
- Direct flow meter integration
- Additional I/O
- Remote device management

PRODUCT HIGHLIGHTS

The R2 is a self-contained terrestrial radio telemetry solution, compatible with leading flow meters from Tyco/ Pentair, Siemens and ABB. It has been designed for total reliability under harsh climatic conditions.

The Metermade® R2 has been engineered to reduce the time taken for installation and commissioning to approximately thirty minutes. Upon establishing a connection to a flow meter, the Metermade® will automatically construct a device profile, collating the important data parameters: real-time flow, flow totalisers, battery voltage, solar voltage, flow meter firmware version, diagnostic information and various status flags.

The R2 ensures end-to-end data integrity, traceability and security via 128-bit encryption employed on all radio communications.

Data is stored internally on non-volatile Flash memory with upstream communications provided using an internal 900MHz FHSS radio transceiver. Host compatibility is ensured with integrated DNP3.0 protocol support. Custom data reporting and wake-from-sleep regimes can be user configured to balance communications uptime and data reporting requirements.

Remote device / configuration management is supported via leading industry SCADA applications.

TECHNICAL SPECIFICATIONS

GENERAL

Supply Voltage	9 – 16 V DC
Current Draw	100 µA sleep, 5 mA active, 500 mA (peak) radio transmit burst (measured at 12 V DC)
Real Time Clock	Internal – Year, month, date, hour, minute, second Automatic DNP3 time synchronisation from host
Temperature	-20 to +85° Celsius
Humidity	0 to 90% relative humidity, non-condensing
Programming	External Metermade® programming cable Metermade® Toolbox configuration software (Windows XP / 7) Remote configuration management via SCADA / Metering host

FLOW METER COMPATIBILITY

Tyco/Pentair	I300 / I500
Siemens	MAG8000
ABB	Aqua Master

TELEMETRY

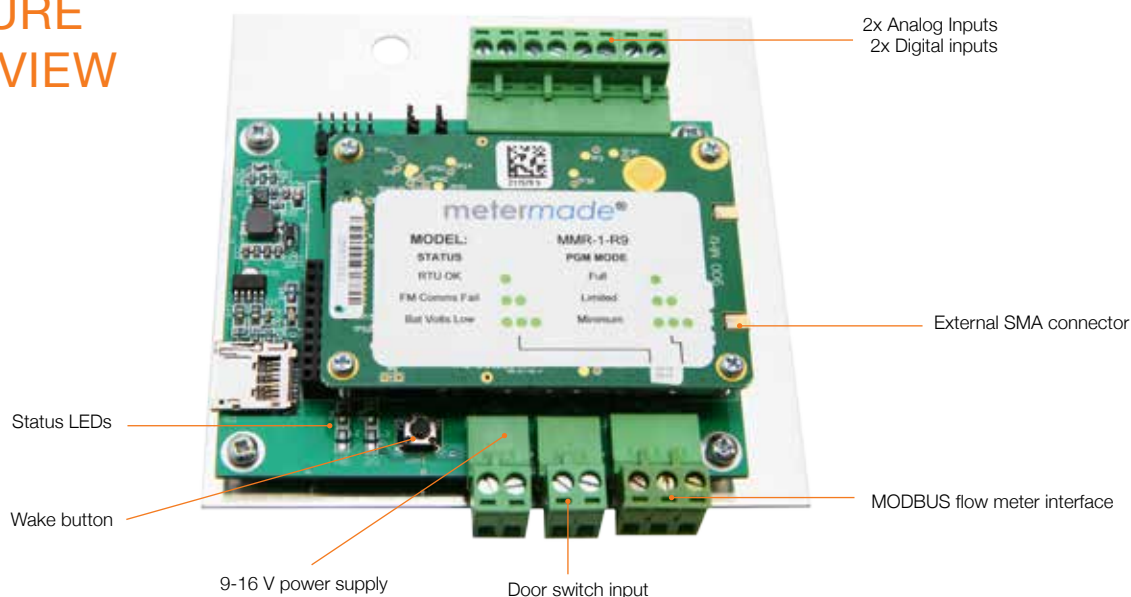
Terrestrial Radio	900 MHz frequency hopping, spread-spectrum transceiver 1 Watt transmit power -105 dBm receive sensitivity
Antenna	External SMA female connector
Security	128-bit AES data encryption

FACTORY ACCESSORIES

Tyco/Pentair I300	Data interface cable, vandal-resistant antenna and 316 stainless steel antenna mounting bracket
Tyco/Pentair I500	Data interface cable, vandal-resistant antenna and 316 stainless steel antenna mounting bracket
Siemens MAG8000	Data interface cable, stand-alone 316 stainless steel pedestal housing with solar power supply and pipe mounting kit
Housing Options	Supplied as open PCB or fully enclosed



FEATURE OVERVIEW



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