



## METERMADE® S1

Ultra low-power, weather-sealed flow meter satellite RTU



### PRODUCT HIGHLIGHTS

The Metermade® S1 Meter Interface Unit (MIU) is an ultra-low power device, designed to operate in the field for up to ten years on a single set of batteries (based on one report per day). Its housing meets the IP68 rating, permitting direct installation onto a flow meter and is capable of operating at a depth of four metres for four days.

The S1 is equipped with an internal one-way satellite transmitter, capable of near world-wide operation on the Globalstar Satellite Constellation. Typical message success rates are greater than 99.6% and typical message latency is less than 60 seconds from field to host.

The Metermade® S1 is the lowest cost option to provide high reliability billing revenue data directly to a host database, where the use of conventional cellular or radio based communications methods is not possible.

The S1 is equipped with a single pulse digital input and a tamper detection digital input. It also features a "magnetic swipe" function to allow on-demand meter reads and data updates by field personnel.

The Metermade® S1 MIU requires no user configuration; it is shipped with a default configuration ready for immediate field deployment. User configuration is possible to allow for customisation of default settings if required.

- Pulse-output flow meter monitoring

# TECHNICAL SPECIFICATIONS

## GENERAL

Supply Voltage	3.5 - 8.5 V DC High-capacity, internal Lithium battery pack (field replaceable)
Current Draw	33 $\mu$ A sleep, 4 mA active, 500 mA (peak) Satellite transmit burst (measured at 3.6 V DC)
Real Time Clock	Internal - Year, month, date, hour, minute, second
Temperature	-20 to +65° Celsius
Humidity	0 to 90% relative humidity, non-condensing
Programming	External Metermade® programming cable (Part number XCAB013) Metermade® Toolbox configuration software (Windows XP / 7)
Dimensions	90 mm (h) x 125 mm (d, nominal) / 155 mm (d, maximum)

## IO INTERFACES

Digital Input	2x low-current dry-contact binary inputs 1x input for meter pulse – 32-bit counter, up to 1Khz 1x input for tamper detect – binary
System Input	Internal measurement of MIU battery voltage, transmit message counter

## TELEMETRY

Satellite Comms	Globalstar Simplex Satellite Transmitter
Antenna	Internal circular polarized ceramic disc antenna
Approvals	RCM (AU/NZ), FCC (USA), IC (Canada), GS, CE (Europe) approvals currently pending

## FACTORY ACCESSORIES

Meter Probes	Terminated pulse-output meter probes to suit all common industry standard water meters
Mounting	Mounting bracket supplied for direct installation onto existing water meter or surface/panel mounting, supplied in 316 stainless steel
Magnetic Swipe	Replacement magnetic swipe with keyring



## FEATURE OVERVIEW



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