

Sagemcom



Siconia® Water Meter UM Wired

A solution for efficient remote management
of cold water consumption for water companies

Wired connection to external communication module

The use of an **ultrasonic metrology technology** allows to eliminate all mechanical moving parts inside the meter and therefore no longer have any mechanical wear phenomenon that would modify the quality of the metrology over time.

Siconia® technology offers a wide range of ultrasonic smart water meters to control, monitor and manage water use in **residential and industrial** environments.

The Siconia® Water metrological unit offers a wide range of measurements, with very high accuracy and a metering **error very close to 0%**. As it remains stable throughout the life of the meter, the information on the water distribution is reliable and the water balance of the network **can be checked daily**, making it **easier to detect leaks** in the network pipes.

The **wired link to external modems** offer the possibility to integrate Siconia® meters in **existing data collection**.

Technical features

METROLOGY

- Nominal diameter (mm): DN20
- Nominal flow rate: 25 gpm (95 lpm)
- Minimum flow rate: 0.1 gpm (0.4 lpm)
- Max operating pressure: 175 PSI (12 bar)
- Measuring frequency: 2 to 8 Hz
- Mounting in any position (H, V, H/V)
- Sensitive class: U0/D0
- Class of T°: T50
- Pipe in composite: 190 mm, 273 mm

TECHNICAL CERTIFICATIONS

- FCC certification (ongoing)
- UL certification (ongoing)

DRINKING WATER CERTIFICATIONS

- NSF/ANSI 61 & 372 (ongoing)

COMMUNICATION

- Two pulse output



- Data logger (36 months capacity)
- Data security (AES128 encryption)

ADVANCED EDGE COMPUTING SERVICES

- Leak detection
- Anti-forgery logs and alarms
- Water quality management - backflow detection

USAGE

- Ultrasonic meter for residential use

ENERGY

- Lithium Thionyl Chloride battery
- More than 10 years lifetime*

ENVIRONMENT

- Protection class IP68
- Operating Humidity: 0 to 99%
- Operating temperature 0 - 70°C

**Depends on radio configuration, associated data model and environmental conditions*

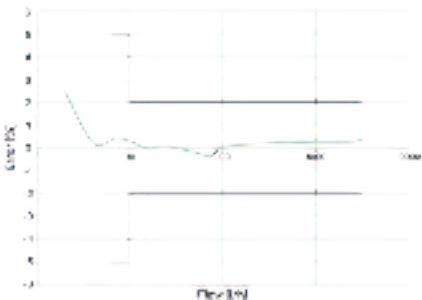
Dimensions



Siconia® UM20		
	Siconia 5/8"x 3/4"	Siconia 1"
A (Box width)	90.2 mm	90.2 mm
B (Height)	24 mm	22 mm
C (Pipe lenght)	130.3 mm	130.3 mm
D (Total lenght)	190 mm	273 mm
E (Box lenght)	104.6 mm	104.6 mm
Thread	NPSM 1"	NPSM 1 1/4"
Weight	1007 g	1069 g

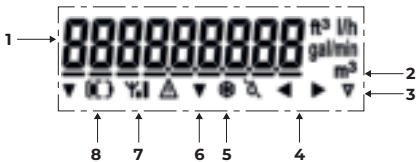
Typical error

Typical metrological curve - R400



LCD Interface

The complete range of Siconia® Water WM meters offers an LCD display. With its nine digits (9), it is well above the requirements of the MID specification.



1	The measured volumes are indicated in gal, m³ and ft³ and flows in gal/mn and l/h.
2	Animated icons showing when there is an active flow through the meter
3	MID certified information
4	The counter is in a backflow situation
5	The water line is not filled with water
6	One or more events/alarms are currently active
7	RF status information
8	Battery level information

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