

# Sagemcom



## Siconia® WATER SM

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

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.

## Technical features

### METROLOGY

- Nominal diameter (mm): DN15
- Nominal flow rate: Q3 (m<sup>3</sup>/h): 2,5
- Minimum flow rate: from 2 l/h
- MID accuracy ratio (Q3/Q1): R250, R400
- Class 2
- Nominal pressure: 16 bars
- Class of T°: T30, T70 (R250)
- Measuring frequency: up to 8 Hz
- Mounting in any position (H, V, H/V)
- Sensitive class: U0/D0
- Pipe in brass or composite: 110 mm

### TECHNICAL CERTIFICATIONS

- EC
- EN14154
- EN 4064
- MID, OIML-R49
- AFNOR E17-901

### DRINKING WATER CERTIFICATIONS

- All materials are from 4MS list
- WRAS
- ACS
- DM174
- SVGW
- RISE
- HYDROCHECK

### COMMUNICATION



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

### EDGE ADVANCED COMPUTING SERVICES

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

### USAGE

- Ultrasonic meter for residential and industrial use

### ENERGY

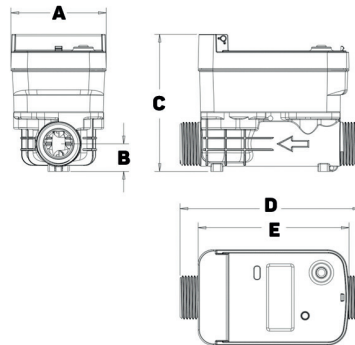
- Lithium battery
- Up to 12 years lifetime\*

### ENVIRONMENT

- Protection class IP54
- Humidity: 98%
- Ambient temperature 0 - 65°C

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

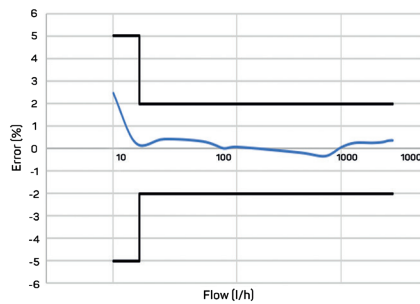
## Dimensions



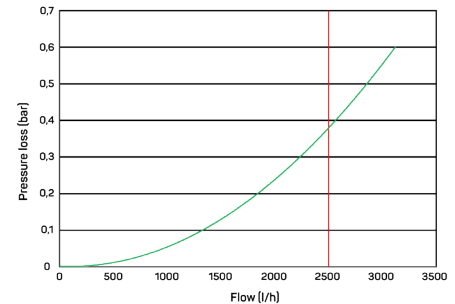
Siconia® SM	
Q3 = 2,5 m <sup>3</sup> /h	
Connexion 3/4"	
A (mm)	58
B (mm)	14
C (mm)	80.6
D (mm)	110
E (mm)	92.6

## Typical error and pressure loss

Typical metrological curve - R250

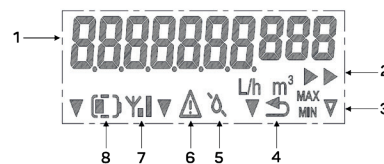


Typical pressure loss curve - R250



## LCD Interface

The complete range of Siconia® Water SM meters offers an LCD display. With its ten digits (7+3), it is well above the requirements of the MID specification.



1	The measured volumes are indicated in m <sup>3</sup> , associated with 3 decimal places giving an indication in liters
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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