Sagemcom

SICONIA®
Water

Siconia® WATER SM

Dual mode LoRaWAN/WMBus

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 (m3/h): 2,5
- Minimum flow rate: 2 l/h
- MID accuracy ratio (Q3/Q1): R250, R400
- Class 2
- Nominal pressure: 16 bars
- Class of T°: T30, T70 (R250)
- Measuring frequency: 1 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

COMMUNICATION

M-Bus wireless 868Mhz   LoRa®

- 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
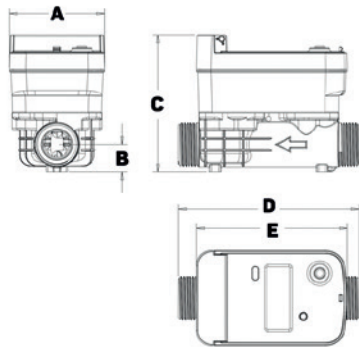- Ultrasonic meter for residential and industrial use

ENERGY
- Lithium battery
- Up to 15 years lifetime*

ENVIRONMENT
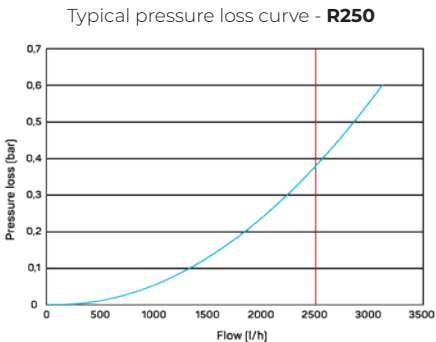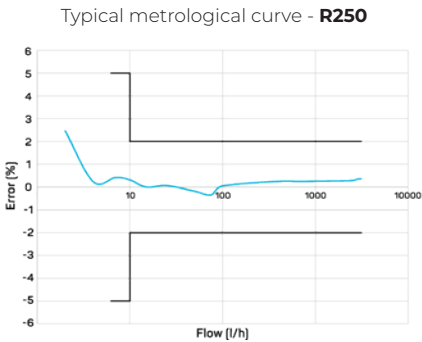- Protection class IP67
- Humidity: 98%
- Ambient temperature 0 - 65°C

Depends on radio configuration and data model associateda

Dimensions

	Siconia® SM
	Q3 = 2,5 m³/h
	Connexion 3/4"
A (mm)	58
B (mm)	14
C (mm)	80.6
D (mm)	110
E (mm)	91.5

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 m³, 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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