

Sagemcom



Siconia® WATER WM

A solution for efficient remote management of cold 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, DN20
- Nominal flow rate: Q3 (m³/h): 2,5, 4,0
- Minimum flow rate: DN15 from 2 l/h, DN20 from 3 l/h
- MID accuracy ratio (Q3/Q1): R250, R400, R500, R630 and R800
- Class 2
- Nominal pressure: 16 bars
- Class of T°: T30, T50
- Measuring frequency: up to 8 Hz
- Mounting in any position (H, V, H/V)
- Sensitivity class: U0/D0
- Pipe in brass or composite: 110 mm, 115mm, 130mm, 165 mm, 190 mm, 220mm

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
- HZJZ
- RISE
- ICIM
- 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

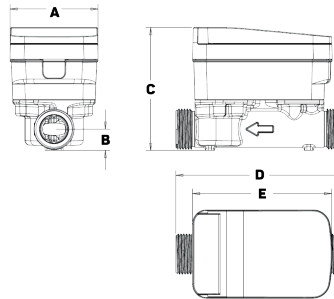
- Lithium battery
- Up to 18 years lifetime*

ENVIRONMENT

- Protection class IP68
- Humidity: 98%
- Ambient temperature 0 - 65°C

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

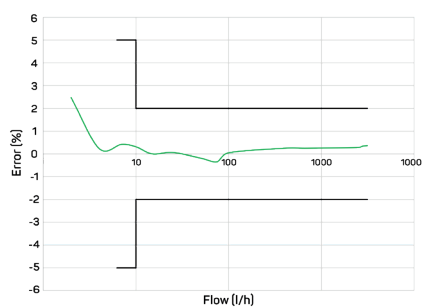
Dimensions



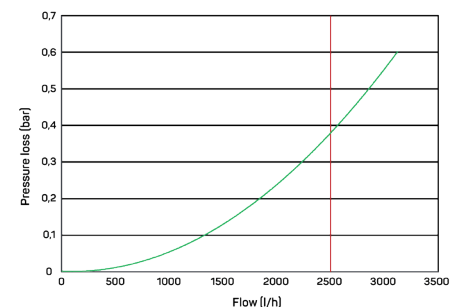
	Siconia® WM		
	Q3 = 2,5 m ³ /h		Q3 = 4 m ³ /h
	Connexion 3/4"	Connexion 1"	Connexion 1"
A (mm)	58	58	58
B (mm)	14	18	18
C (mm)	80.6	84.6	85.1
D (mm)	110, 115, 165 or 170	110, 165 or 190	130, 165, 190 or 220
E (mm)	92.6	92.6	92.6

Typical error and pressure loss

Typical metrological curve - DN15 R400



Typical pressure loss curve - DN15 R400



LCD Interface

The complete range of Siconia®Water WM 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 ³ , 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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