Sagemcom

SICONIA® SM - wM-Bus

Compact ultrasonic water meter for cold and hot water, combining high measurement accuracy and data communication for submetering and primary metering applications.

The SICONIA® SM water meter delivers **a measurement error close to 0%** across a wide flow range. Its **ultrasonic technology** eliminates all moving mechanical parts inside the meter, removing mechanical wear effects that could affect metrological performance over time. As a result, billing remains accurate and reliable throughout the meter's lifetime.

The SICONIA® SM wM-Bus water meter enables remote data transmission through either drive-by/mobile reading or fixed network AMR/AMI systems. This ensures rapid reporting of critical alarms and supports daily monitoring of consumption data.

Technical features

TECHNICAL CERTIFICATIONS
- ISO 4064
- MID and OIML R49
- EN 13757

DRINKING WATER CERTIFICATIONS
- Large portfolio of drinking water certifications, including in particular:
  - WRAS
  - ACS
  - DM174
  - HYDROCHECK
  - KIWA
  - Compliant with the European Drinking Water Directive (DWD)

COMMUNICATION

wM-Bus wireless

- wM-Bus 868MHz

CYBERSECURITY
- Security by Design approach
- Compliance with European regulations: NIS 2, Cyber Resilience Act (CRA), etc.
- Data encryption

SMART NETWORK MONITORING
- Early leak detection and loss reduction
- Ambient and water temperature monitoring
- Advanced protection against fraud and tampering
- Backflow detection and measurement

ENERGY
- Lithium battery
- Up to 15 years lifetime*

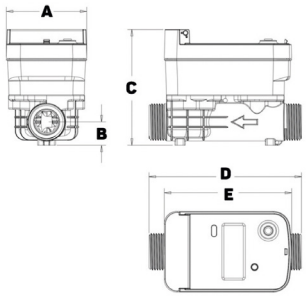
ENVIRONMENT
- Protection class IP67
- Ambient temperature : -20°C to +70°C

**Depends on configuration and environmental conditions*

Metrology

	SICONIA® SM
	DN15
Accuracy class	Class 2
Permanent flow rate : Q3	2.5 m³/h
Starting flow	2 l/h
R ratio (Q3/Q1)	R250
Nominal pressure	16 bars
Temperature class	T30 (cold water), T70 (hot water)
Measuring frequency	8 flow measurements per second
Mounting in any position	H, V, H/V
Sensitive class	U0/D0

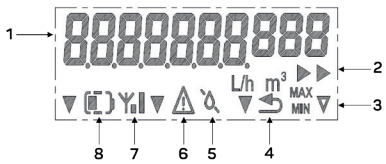
Dimensions



	SICONIA® SM
	Thread G3/4"
A (mm)	58
B (mm)	14
C (mm)	80.6
D (mm)	110
E (mm)	91.5
Materials	Composite (PPS 40%GF)

LCD Interface

The complete SICONIA® SM water meter range features an LCD display. With its 10-digit register (7 integer digits and 3 decimal digits), it ensures highly accurate reading and offers a display capacity that exceeds the requirements of the Measuring Instruments Directive (MID).



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 meter is in a backflow situation
5	The pipe 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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Sagemcom Energy & Telecom SAS
Headquarters : 4 Allée des Messageries
92270 Bois-Colombes - FRANCE
Tel : +33 (0)1 57 61 10 00 - Fax : +33 (0)1 57 61 10 01
www.sagemcom.com

Sagemcom