

Sagemcom



SICONIA[®] WM

Dual mode LoRaWAN / wM-Bus

Delivering highly accurate measurement and long-term metrological stability

The SICONIA® WM meter range provides **accurate measurement** across a wide flow range, with **a metering error close to 0%**. Its **ultrasonic technology** eliminates all moving mechanical parts inside the meter, removing wear phenomena that could affect metrological performance. As a result, measurement accuracy remains stable throughout the meter's lifetime, ensuring reliable billing and providing utilities with accurate consumption data to better monitor network performance and detect leaks at an early stage.

The SICONIA® WM **dual-mode LoRaWAN / Wireless M-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, OIML R49 and INMETRO
- 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



- Dual communication :
 - LoRaWAN 1.0.4 : Bands EU868, US915, AU915 and AS923
 - wM-Bus 868MHz
- Bidirectional communication by LoRaWAN : Firmware Over The Air (FOTA) and On-Demand Read (ODR)
- Configurable spontaneous alarms
- Local NFC interface for after-sales service

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 IP68
- Ambient temperature : -20°C to +70°C

*Depends on configuration and environmental conditions

Metrology

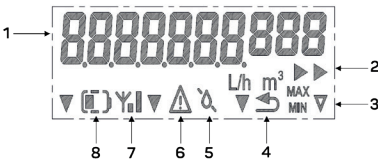
	SICONIA® WM LoRaWAN/wM-Bus		
	DN15	DN20	DN25
Accuracy class	Class 2		
Permanent flow rate : Q3	2.5 m³/h	4 m³/h	6.3 m³/h
Starting flow	2 l/h	3 l/h	6 l/h
R ratio (Q3/Q1)	R250 to R800	R250 to R630	R250 to R400
Nominal pressure	16 bars		
Temperature class	T30, T50		
Measuring frequency	8 flow measurements per second		
Installation in any position	H, V, H/V		
Sensitive class	U0/D0		

Dimensions

	SICONIA® WM LoRaWAN/wM-Bus			
	DN15	DN20	DN25	
Threads	G3/4"	G1"	G1"	G1¾"
A (mm)	58	58	58	78.4
B (mm)	14	18	18	23
C (mm)	80.6	84.6	85.1	125
D (mm)	110, 115, 165, 170	110, 165, 190	130, 165, 190, 220	260
E (mm)	92.6			106.6
Materials	Brass or Composite (PPS 40%GF)			

LCD Interface

The complete SICONIA® WM 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/alerts are currently active
7	RF status information
8	Battery level information

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