

# Sagemcom



## **SICONIA® WM Advanced**

NB-IoT / LoRaWAN / wM-Bus

*A multi-communication meter delivering highly accurate measurement and long-term metrological stability*

The SICONIA® WM Advanced meter range provides **accurate measurement** across a wide flow range. Its **ultrasonic technology** eliminates all moving mechanical parts inside the meter, removing wear phenomena that could affect metrological performance. Billing therefore remains reliable and stable throughout the meter's lifetime.

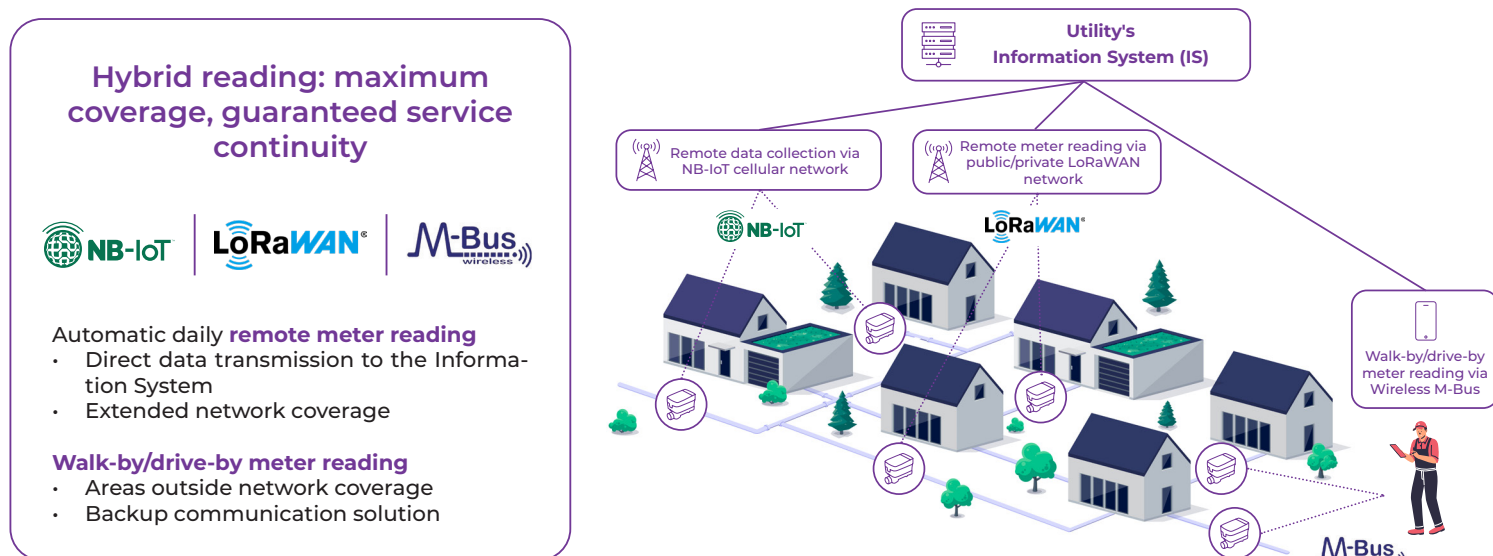
Thanks to its **multi-communication technology** integrating **NB-IoT, LoRaWAN and Wireless M-Bus**, the meter adapts to utilities' different deployment strategies. It ensures efficient and secure transmission of consumption data, meter alarms and water network events.

With its **acoustic sensor dedicated to leak detection and its pressure sensor (options to be selected when ordering)**, SICONIA® WM Advanced-AP brings new network monitoring capabilities and contributes to improving network efficiency.

## One meter. Up to 3 simultaneous communication options

When your projects require maximum communication flexibility, the **SICONIA® WM Advanced** range can embed several radio connectivity technologies to adapt to your field constraints, meter reading strategy and operational objectives.

With the **hybrid meter reading**, you can combine **fixed remote reading** (NB-IoT or LoRaWAN) and **WM-Bus radio walk-by/drive-by reading**. Fixed networks also provide **secure bidirectional communication**, enabling you not only to collect metering data and alarms, but also to interact remotely with the meter to modify its parameters or perform updates.



## Maximizing NB-IoT collection performance

To maximize data collection via the NB-IoT network, Sagemcom offers two complementary solutions to improve radio connectivity performance and ensure that the meter remains adaptable to network evolutions throughout its lifetime.



**eSIM GSMA SGP.32 – Multiple profiles, one SIM card**

- Support for multiple operator profiles on a single SIM card
- Operator selection based on network coverage availability
- Ability to add or modify operator profiles throughout the meter's lifetime
- Flexibility to adapt to evolving telecom contracts
- Reduced risks associated with dependency on a single operator

**SMA connector for external antenna – The right antenna for each installation**

- Designed for installations with poor radio coverage
- Especially suited for deep pits, underground chambers and technical rooms
- Compatible with a wide range of external antennas



The **SICONIA® WM Advanced** range gives you a more complete and accurate view of your network and effectively contributes to reducing non-revenue water (NRW), while improving service performance and reliability.

# 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



- Hybrid communication :
  - NB-IoT
  - LoRaWAN 1.0.4 : Bands EU868, US915, AU915 and AS923
  - wM-Bus 868MHz
- Bidirectional communication : Firmware Over The Air (FOTA) and On-Demand Read (ODR)
- Configurable spontaneous alarms
- Local Bluetooth 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 of lifetime\*

## ENVIRONMENT

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

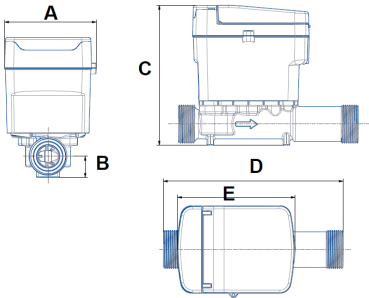
\*Depends on configuration and environmental conditions

# Metrology

|                              | SICONIA® WM Advanced           |              |              |
|------------------------------|--------------------------------|--------------|--------------|
|                              | 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, T70*                 |              |              |
| Measurement frequency        | 8 flow measurements per second |              |              |
| Installation in any position | H, V, H/V                      |              |              |
| Sensitive class              | U0/D0                          |              |              |

\*T70 available on DN15 only

# Dimensions



|           | SICONIA® WM Advanced           |             |         |             |         |
|-----------|--------------------------------|-------------|---------|-------------|---------|
|           | DN15                           |             | DN20    |             | DN25    |
| Threads   | G3/4"                          |             | G1"     |             | G1"¾    |
| A (mm)    | 78.4                           |             | 78.4    |             | 78.4    |
| B (mm)    | 14                             |             | 18      |             | 21      |
| C (mm)    | 129.3                          |             | 134.3   |             | 139.3   |
| D (mm)    | Brass :                        | Composite : | Brass : | Composite : | Brass : |
|           | 110mm                          | 110mm       | 130mm   | 190mm       | 178mm   |
|           | 115mm                          | 165mm       | 154mm   |             | 160mm   |
|           | 134mm                          |             | 190mm   |             |         |
|           | 165mm                          |             |         |             |         |
| 170mm     |                                |             |         |             |         |
| E (mm)    | 106.6                          |             | 106.6   |             | 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/alarms are currently active                                                            |
| 7 | RF status information                                                                                     |
| 8 | Battery level information                                                                                 |



All rights reserved. The information and specifications included are subject to change without prior notice. Sagemcom Energy & Telecom tries to ensure that all information in this document is correct, but does not accept liability for error or omission. Non contractual document. All trademarks are registered by their respective owners. Simplified joint stock company Capital 36 626 034,60 Euros - 518 250 337 RCS Nanterre. 10/2026

## 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