Sagemcom

SICONIA®
Water

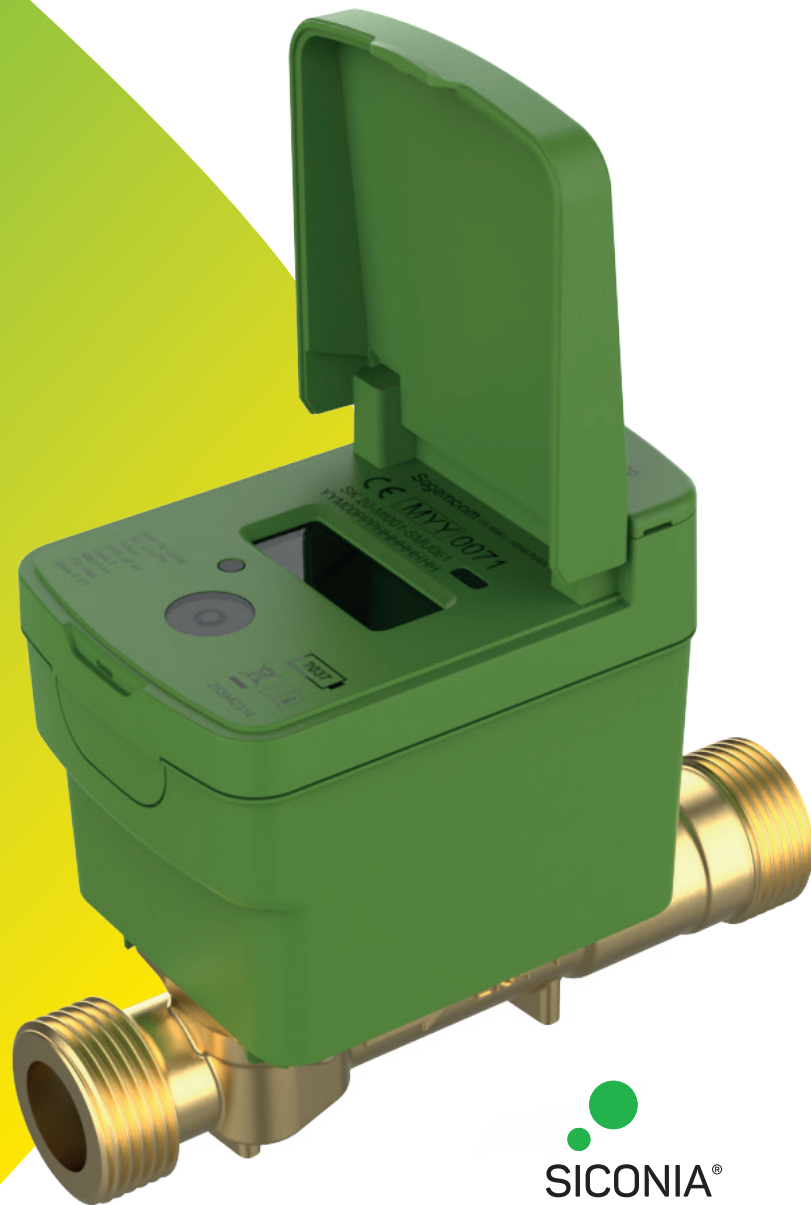# Siconia® WATER WM with optional Integrated Pressure Sensor

A solution for efficient remote management of cold water consumption and distribution network management for water utilities

Siconia® technology offers a wide range of **ultrasonic smart water meters** to monitor and manage water use in **residential and industrial** applications, with very high accuracy and a measurement **error curve very close to 0%**. The removal of all mechanical moving parts inside the meter results in water with no mechanical wear phenomenon and therefore **greater stability of metrology** quality over time.

Siconia® technology is also a new step towards edge computing and data analytics: it offers the **first smart meter with integrated accelerometer and pressure sensors** that provide information on the quality of the water supply service. With Siconia® technology, water utilities can monitor the pressure of the water delivered to the distribution point and may predict the maintenance on their water distribution grid/network.

Technical features

METROLOGY

- Nominal diameter (mm): DN20
- Nominal flow rate: Q3 (m³/h): 4,0
- Minimum flow rate: from 2 l/h
- MID accuracy ratio (Q3/Q1): R400
- Pipe material: DZR lead-free brass
- Pipe length: 154 mm
- Nominal pressure: 16 bars
- Class of T°: T50
- Measuring frequency: 2 Hz
- Optionally up to 8 Hz
- Pressure loss: ΔP63
- Mounting in any position (H, V, H/V)
- Sensitive class: U0/D0
- Non-Reversing Device: Dual check valve

TECHNICAL CERTIFICATIONS

- NMI - R49
- ACMA RCM compliance
- Watermark certification
- AS3565.1-2010
- AS4020

COMMUNICATION

NB-IoT   Bluetooth

- NB-IoT procol - Band 3*,5*, 8*, 20*, 28
- *future versions
- Release 13 and 14
- DLMS COSEM (possible alternative available)
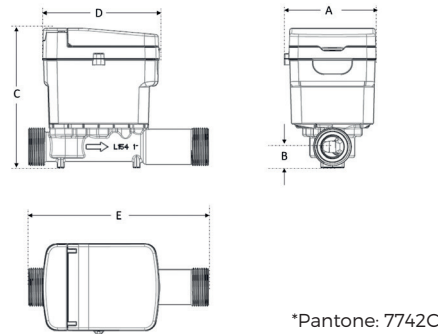- Optional external antenna

ENERGY CONSUMPTION

- Lithium battery
- Up to 15 years lifetime*

ENVIRONMENT

- Protection class IP68
- Environmental Class: Class O
- Electromagnetic Environment: E1

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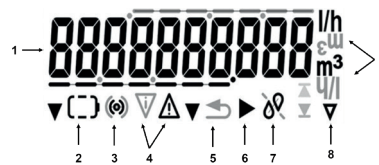
Dimensions

*Pantone: 7742C

	Siconia© - WM - AUS
	Q3 = 4 m 3/h
	32.50 x 14TPI Whitworth form
A	78.4 mm
B	18 mm
C	119.3 mm
D	106.6 mm
E	154 mm

New feature - LCD Display

The complete range of Siconia® Water WM meters offer an LCD display. With its ten digits (7+3), it is well above the requirements of the AS 3565.1 specification.

Thanks to embedded accelerometer, this range of meter includes auto tamper and reverse feature when installed in a vertical pipe.

1	The measured volumes are indicated in m³, associated with 3 decimal places giving an indication in liters
2	Battery level information
3	RF status information
4	One or more events/alarms are currently active
5	Backflow situation
6	Active flow through the meter
7	Pipe is not filled with water
8	MID certified information

New feature - Pressure sensor (option)

With the new Sagemcom solution, it is possible to have a product with an integrated pressure sensor that enables to :

• Check if SLA about level of water pressure at customer premises is achieved

• Monitor the water grid by collecting data on a daily basis and then by analysing collected information

* This datasheet is generic and does not describe exhaustively all specifications of the meter

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