

Sagemcom



SICONIA® WATER WM **Dual mode LoRaWAN/WMBus**

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, DN25
- Nominal flow rate: Q3 (m³/h): 2,5, 4,0
- Minimum flow rate: 2l/h (DN15), 4l/h (DN20), 6l/h (DN25)
- MID accuracy ratio (Q3/Q1): R250, R400, R500, R630, R800n(only for DN15)
- Class 2
- Nominal pressure: 16 bars
- Class of T°: T30, T50
- Measuring frequency: 1 to 8 Hz
- Mounting in any position (H, V, H/V)
- Sensitive 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
- HYDROCHECK
- SVGW

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

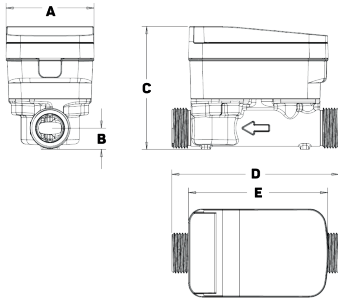
- Lithium battery
- Up to 18 years lifetime*

ENVIRONMENT

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

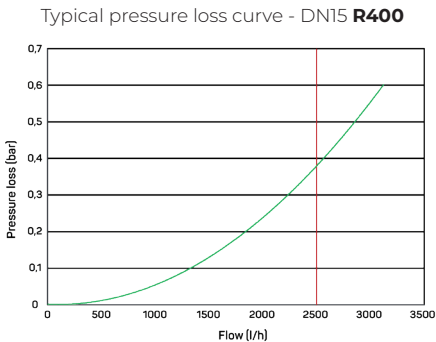
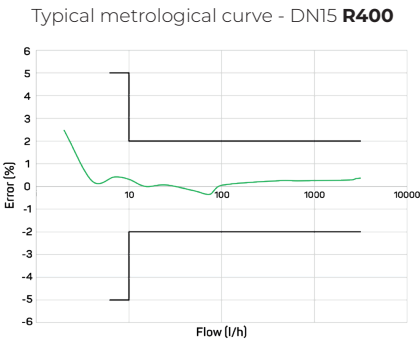
*Depends on radio configuration and data model associated

Dimensions



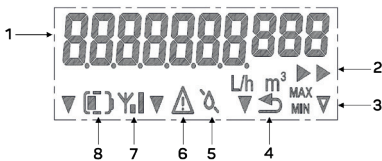
SICONIA® WM				
Connexion	DN15		DN20	DN25
	Q3 = 2,5 m³/h		Q3 = 4 m³/h	Q3= 6,3m³/h
Connexion	3/4"	1"	1"	1 1/4"
A (mm)	58		58	78.4
B (mm)	14	18	18	21
C (mm)	80.6	84.6	85.1	122.3
D (mm)	110, 115, 165 or 170	110, 165 or 170	130,165 or 190 or 220	260
E (mm)	92.6		92.6	106.6

Typical error and pressure loss



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 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 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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