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SICONIA®

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FRANCE

CE M24 1234
MI002-YYYY-XXXXX

Ex II 3G Ex h ic IIA T3 Gc

Production date:
10/2024

7SAG0100000001

EN 14 236 : 2018

Groupe H,L,E	Tb 0 °C
Qmin 0,04 m3/h	Tsp 20 °C
Qmax 6 m3/h	IP65/67
Pmax 0,5 bar	M1/E1
Classe 1,5	
-25 °C ≤ Tg ≤ +55 °C	
-25 °C ≤ Tm ≤ +55 °C	

SICONIA U-Slim platform

Domestic ultrasonic smart gas meter range

Description

The Siconia® U-Slim is a range of ultrasonic gas meters for H, L, E families of gas, targeted for residential use. It is designed and built according to the highest standards, in compliance with the EN 14236, EN 16314 norms and the MID directive.

The Siconia® U-Slim is based around a new embedded electronic and mechanical platform which provides the following features:

· High measurement accuracy with the ultrasonic sensor, including low flow rates, low pressure losses and instantaneous flow measurement.
· Modular platform design adapted to different market needs (modularity in the use of several sensors, functionalities and dimensions around the same metrological concept).
· New generation of microcontroller with higher performances, expanded RAM and increased flash memory. This means the possibility to embed more complex functionalities, and the ability to handle demanding applications of the future.
· Excellent communication performances in WMBUS at 868MHz. Other communication technologies such as NBIOT and LoRa are included in our roadmap.
· No moving parts inside. It is compact, lighter, quieter, and increasingly suited to a green and sustainable market (fewer plastic parts, reduced packaging and easier to transport).
· Alarms are used in the event of backflow (volume or time can be customised), air detection and leak detection. Alarms can also be triggered in the event of mechanical tampering or attempted unauthorised access.
· Hydrogen and biogas compatibility.
· Resistance against impurities and contaminants.
· Dot matrix LCD display with multilevel menu and high refresh rate. Optional backlight version available
· Remote control of the valve for gas flow management*
· Logging of gas measurement with or without temperature compensation according to the model (Vb or Vc)
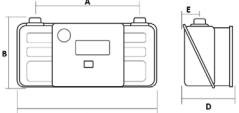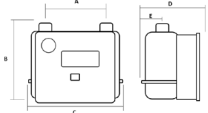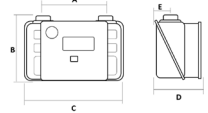· Remote firmware update (both legally and non-legally relevant firmware)

The quality of the plastic and metal components makes the meters highly sensitive, even with a minimal gas flow, and ensures excellent performance over time. The measurement precision and accuracy are guaranteed by the production, control process and by an automated calibration system, which is used at the internal Metrological Laboratory upon 100% of the meters manufactured. This accuracy and reliability of the measurement over time is guaranteed by the high precision ultrasonic sensor that is integrated into the electronics of the meter.

REFERENCES
EEC directives:
- 2014/32/UE MID
- 2014/34/UE ATEX (II 3G Ex ic IIA T3 Gc)
- 2014/53/UE RED
- 2011/65/UE RoHs

EU standards:
- EN 14236:2018
- EN 16314:2013
- WELMEC 7.2

Product details

Model	U-Slim4	U-Slim6
Type	Smart ultrasonic	
Caliber	G4	G6
Max. operating pressure (mbar)	500	
Min. flow rate (m3/h)	0,04	0,06
Max. flow rate (m3/h)	6	10
Starting flow rate (m3/h)	0,010	0,015
Connection type*	220mm ¾", NPR 7028-2022 110 mm 7/8" or 1"1/4, ISO 228-1 160mm 7/8" or 1"1/4, ISO 228-1	
Operating temperature range*	-10°C / +40°C or -25 °C / + 55 °C	
Temperature Base*	Tb 0°C or Tb 15 °C	
Precision class	1.5	
Maximum computable volume	99999.9999 m^3	
Minimum reading value	0.0001 m^3	
Protection rating*	Up to IP67	
Environmental class	M1/E1	
General Dimensions 220 mm G4 and G6	A: 220 mm, B: 169 mm, C: 315 mm, D: 128 mm, E: 40 mm	
General Dimensions 110 mm G4*	A: 110 mm, B: 160 mm, C: 182 mm, D: 130 mm, E: 54 mm	
General Dimensions 160 mm G4*	A: 160 mm, B: 169 mm, C: 255 mm, D: 128 mm, E: 40 mm	

Characteristics

• Casing in galvanized steel sheet with polyester powder paint
• "H3" outdoor environments option*
• Class 1.5 with high stability of measurement
• Compatible measurement up to 23% Hydrogen blend
• U-Slim meter available in the configuration with or without replaceable batteries*
• Integrated mechanical tamper and electromagnetic interference protection
• 2 batteries for metrological unit and communication module (lifetime up to 20 years)
• ATEX Zone 2-II 3G Ex h ic IIA T3 Gc

*further information and availability dates can be detailed upon request

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