

flowIQ® 2101

kamstrup

Smart Ultrasonic Water Meter

- First-of-its-kind ultrasonic concentric water meter
- Pinpoint accuracy over entire lifetime of 16 years
- Intelligent alarms increase water efficiency
- Integrated radio communication for remote reading



Defining the future of smart water metering with the first ultrasonic concentric meter

The ideal smart water meter

The Kamstrup smart water meter flowIQ® 2101 is the first ultrasonic concentric meter, developed with our 30 years of experience within ultrasonic metering technology. Measuring technology without moving parts makes flowIQ® 2101 less subject to typical wear and tear experienced by mechanical moving parts of nutating disk, piston, and multi-jet type meters. Therefore, it maintains a high and stable accuracy

throughout its lifetime across different types of manifolds and is highly stable throughout the entire measurement range with a very low error margin. Thanks to its low start flow of 3.2 l/hour, the meter measures even the smallest consumption. All of this ensures fair and accurate billing of your customers, improves the quality of your data and helps you reduce your water loss.

Features

- **Low start flow** down to 3.2 l/hour secures accurate measurement of every drop of water delivered and captures even small scale leaks
- **Integrated Wireless M-Bus** with 868 MHz radio for remote reading and OMS for interoperability with other reading systems
- **Smart alarms** for leak, burst, dry, tamper, and reverse flow
- **Dual monitoring** of ambient and water temperature
- **Flow rate on the display** to facilitate installation and getting started
- **Low pressure loss** for secured stable pressure at the customer's site



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Innovation and quality

The state-of-the-art water meter flowIQ® 2101 is designed and manufactured for accuracy and durability throughout the entire 16-year lifetime. Using the ultrasonic measurement principle secures that there are no obstructions to the water flow, leading to a very low pressure loss compared to other

meters. All electronics and communication are enclosed in watertight composite to secure protection from damaging water penetration or tampering attempts. The tube material is dismissive to particle sedimentation, protecting your water quality and the meter's measurement accuracy.

The value of data

Smart metering creates transparency across your distribution network and is a constant source of information about what goes on where. Having the right knowledge at the right time makes it more efficient and easier to reduce network leaks – for the benefit of the environment, the consumers and the utility's bottom line.



Reduce water loss

Intelligent alarms from the meter let you detect leaks and bursts or other irregularities such as tampering attempts or reverse flows quickly and effectively. This helps to reduce household water consumption as well as limit damages from leaks and pipe bursts.



Improve your customer service

With flowIQ® 2101, you are well prepared to handle customer inquiries. You can give the end users access to detailed information about their own consumption and guarantee fair and accurate billing. Remote reading enables you to be both proactive in fixing leaks and helping to prevent your customers from receiving high bills.

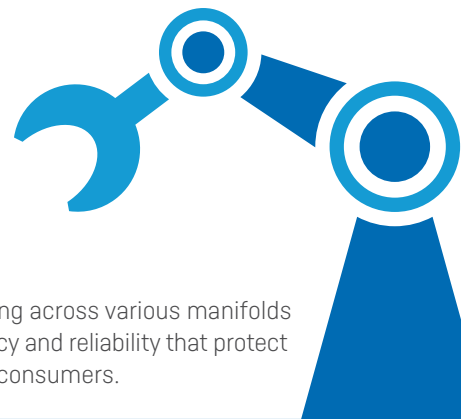


Smart meter – Smart design

flowIQ® 2101 is made of 100 % watertight and durable composite. It is material resistant to outside influences such as contaminants to ensure that nothing harms your water quality. Our production process ensures consistent quality, hygienic and accurately calibrated meters.

flowIQ® 2101's vacuum sealing and IP68 approval enable installation in meter pits with no risk of moisture and condensation.

The extensive testing across various manifolds secures the accuracy and reliability that protect your business and consumers.



Technical specifications

Nominal flow	2.5 m ³ /h
Start flow	3.2 l/h
Pressure loss	0.49 bar
Size	1 1/2" connection
Water temperature	0.1...30 °C
Environmental conditions	IP68, 100 % submersible. Fulfils OIML R49 2013 class B and O (indoors/outdoors)
Display	Total usage [m ³ /litres] (up to 9 digits/incl. 0-3 decimal spaces), Flow [4 digits], Alarm codes (Leak, Burst, Dry, Reverse, Tamper)
Integrated radio transmitter	Wireless M-Bus 868 MHz Mode C1 and T1 - OMS: Transmits data every 16 or 96 seconds
Battery	Lifetime up to 16 years
Meter housing	Polyphenylene Sulfide (PPS)
Standards	MID approved according to OIML R49 2013 [ISO 4064 2014], WRAS, Radio Equipment Directive [RED]

Think forward

Kamstrup Instrumentation Ltd

Unit 5B, Stour Valley Business Centre
 Brundon Lane Sudbury
 UK-Suffolk CO10 7GB
 T: +44 17 87 31 90 81
 info@kamstrup.co.uk
 kamstrup.com