


flowIQ® 2100
- AMR meter

kamstrup

Next generation smart water metering

- Proven ultrasonic technology
- Pinpoint accuracy for increased revenue protection
- Intelligent alarms limit non-revenue water
- Flexible communication options including IoT support



An aerial photograph of a residential neighborhood with several houses and streets. Overlaid on the image are white wireless signal icons (a circle with three curved lines) positioned above various houses. A series of white dots forms a path that starts from the left side of the image, moves down, then curves along a street, and continues towards the right side. The background is a dark, slightly blurred aerial view of the neighborhood.

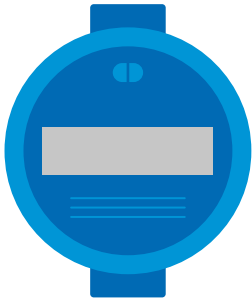
The ideal ultrasonic water meter for residential use

The flowIQ® 2100 is a smart water meter based on the latest ultrasonic technology. The meter has no moving parts and maintains its pinpoint accuracy throughout its entire lifetime of up to 20 years. The meter has industry-leading accuracy to ensure that even very low flows are measured down to the very last drop. This secures a fair and correct billing, improves the quality of your data and helps you reduce non-revenue water.

- ✓ Ultrasonic measurement for precise accuracy and resistance to wear and tear
- ✓ Low start-flow down to 0.015 GPM measuring capability to earn revenue from every drop of water delivered
- ✓ IP68 for submersible conditions and pit installations
- ✓ Integrated 900 tri-band MHz range radio for remote meter reading
- ✓ Smart alarms for leak, burst, dry, tamper, and reverse flow
- ✓ 20 year battery lifetime
- ✓ No loss of accuracy over time
- ✓ Dual temperature monitoring

flowIQ® 2100

– Say goodbye to manual meter reading



Ultrasonic water meter

flowIQ® 2100 ensures that the consumption of every single gallon of water is accurately registered and billed. Tamper-proof with no moving parts, flowIQ® 2100 is resistant to typical wear and tear experienced by mechanical moving parts of nutating disk, piston, and multi-jet type meters. flowIQ® 2100 reads and sustains accuracy and ultra low starting flows throughout its entire lifetime.

Tap into the value of data

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 limits both the non-revenue water as well as any consequential damages from leaks and pipe bursts.

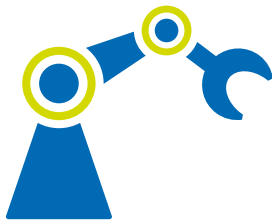
At the same time, the flowIQ® 2100 enables you to monitor both the ambient temperature and the temperature of the water. flowIQ® 2100 can forewarn you if the water quality has possibly changed or if there is a high risk of bursts due to frost.

With the flowIQ® 2100, you are well prepared to handle customer enquiries, and you can give the end-users access to detailed information about their own consumption.

Smart meter – smart design

The flowIQ® 2100 is made from 100% ecofriendly and durable composite. Our fully automated production process ensures consistent quality, hygienic, and accurately calibrated meters.

The flowIQ® 2100 vacuum sealing and IP68 approval enables installation in meter pits with no risk of moisture and condensation. flowIQ® 2100 comes with integrated 915 MHz band RF transmitter that allows for the safe and rapid capture of remotely read data in semi-automatic and automatic meter reading solutions driving additional revenue for the metering management for metering management and sustained bottom line revenue.



Product range

GPM	Meter size	Length
25	5/8" x 1/2"	7 1/2"
25	5/8" x 3/4"	7 1/2"
32	3/4" x 3/4"	7 1/2"
32	3/4" x 3/4"	9"

Technical specifications

Start flow	0.015 GPM
Max flow	25 GPM, 32 GPM
Saturation flow rate	33 GPM, 42 GPM
Pressure loss	4.1 PSI at 15 GPM, 3.0 PSI at 15 GPM
Accuracy	98.5-101.5 % within normal flow range at temperatures less than 85°F
Ambient operating temperature	35 °F to 130 °F
Fluid temperature	33 °F to 140 °F
Storage temperature empty sensor	-10 °F to 140 °F
Environmental class	IP68, 0 to 100 % relative humidity. The meter is designed for indoor and outdoor operation, including fully submerged installations
Maximum operating pressure	250 PSI (17 bar)
Minimum burst pressure	1000 PSI (55 bar)
Integrated radio transmitter for remote reading	Transmission every 16 seconds of: Total usage Max rate of flow (optional) Alarm codes
Battery	3.6 volt battery
NPSM thread size on meter	3/4", 1"
Installation length	7 1/2", 9" (3/4" available in long and short pattern)
Meter housing and flow part (wetted parts)	Glass fiber reinforced PPS composite
Reflectors (wetted parts)	Stainless steel (AISI 304L)
Standard	flowIQ® 2100 conforms with NSF/ANSI Standard 61, FCC Part 15, AWWA M6, ANSI, and AWWA-C700 and C708 as applicable

Note: The capabilities of the meter above the max flow will require that cavitation is avoided at all times. Damage to a meter that has been used at flow rates above the max flow will not be covered by warranty.

Think forward