

flowIQ® 2102

kamstrup

The smart choice for residential water metering

- Ultrasonic measurement for precise accuracy
- 100% vacuum sealed construction
- Integrated Radio Communication
- Smart alarms for leak detection, burst, and tamper notification
- Flow monitoring and data logging



Beating water loss with technology

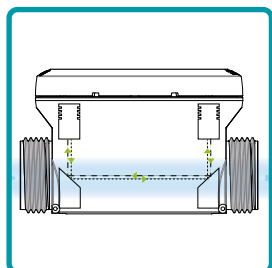
With ultrasonic technology Kamstrup introduces a breakthrough in water metering that enables intelligent use and protection of critical water resources. flowIQ® 2102 supports your utility's efforts for water conservation, reliable customer service and operational efficiency.

By contrast to a traditional meter, the electronic ultrasonic meter operates with low-flow cut-off (low start flow) during the entire life of the meter. It has no moving parts and is, thus, less subject to wear and tear and impurities in drinking water. The combination of longevity of the meter, including up to 16 years' battery life, and minimum operating costs, you are guaranteed the most cost-effective solution.



flowIQ® 2102

- the most cost-effective solution for water metering



Ultrasonic water meter

flowIQ® 2102 ensures that the consumption of every single liter of water is accurately registered and billed.

Tamper-proof with no moving parts, flowIQ® 2102 is less subject to typical wear and tear experienced by mechanical moving parts of nutating disk, piston, and multi-jet type meters.

The water meter reads and sustains ultra-low starting flows throughout its entire lifetime.



Smart and strong design

The flowIQ® 2102 vacuum sealing and IP68 approval enables installation in meter pits with no risk of moisture and condensation.

flowIQ® 2102 comes with integrated radio transmission on 923 MHz, 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.



Water metering without waste

Conservation is what it is all about. The environmental report, Carbon Footprint, documents the meter's high reusability and low environmental impact. Meter housing and measuring tube are made of 100% lead-free composite.


flowIQ® 2102 measures water and ambient temperatures respectively. The measurements can be used to monitor the installation and to give an indication of the quality of the water. Both temperatures are logged in the daily and monthly records.

Another key advantage of flowIQ® 2102 is leak, burst, and tamper detection. This is a significant driver to minimize the waste of water – a benefit for the environment and your economy.

Model	Meter Size Q_3 [m³/h]	Connection on meter	Length [mm]
D	2.5	G¾B	110
L	4.0	G1B	130



Technical specifications

Nominal operation flow	2.5 and 4.0 m ³ /h
Meter start flow (low cut-off flow)	2.0 and 3.2 l/h
Maximum continuous operation	4.6 and 8.5 m ³ /h
Pressure loss	0.55 bar and 0.38 bar
Accuracy	+/- 2 % in range Q ₂ - Q ₄
Ambient operating temperature	0.1 °C – 50 °C (cold water)
Storage temperature – empty sensor	-25...60 °C
Environmental/ambient/standard class	IP68, 100 % submersible. Fulfills OIML R49 class B and C (indoors/outdoors)
Pressure stage	1600 kPa
LCD register display	Total usage [m ³ / liters] (5 / 3 digits; height 8 / 4 mm) Alarm codes (Leak, Burst, Dry, Reverse, Tamper)
Integrated radio transmitter 923 MHz for remote reading	Transmission every 16 or 96 seconds Total usage Total usage at target date (1st of actual month) Temperatures Alarm codes
Battery (operation at ambient temperatures below 30 °C)	3.65 VDC, 1 C cell lithium (lifetime 16 year)
Meter connection / length	G¾B(R½) * 110mm G1B (R¾) * 130mm – * 154 mm with extension
Meter housing and flow pipe (wetted parts)	Glass fiber reinforced PPS composite
Reflectors (wetted parts)	Stainless steel (AISI 304L)
Certification	NMI NO 14/3/23 RMC 

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