

flowIQ® 2100 & 3101 series Encoded Meter

kamstrup

Next generation Encoded Meter reading

- Ultrasonic measurement
- Pinpoint accuracy
- Extended alarms with 460 days of data logs
- Modular cable system
- UI-1203 protocol
- TRPL interface with auto sense






Theft



Inaccurate
mechanical meters



Leak detected

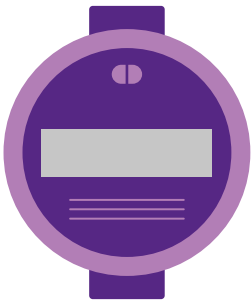
The ideal ultrasonic water meter

The flowIQ® 2100 & 3101 series Encoded Meter is a smart water meter based on the latest ultrasonic technology. The meter has no moving parts and maintains its accuracy throughout its entire lifetime of 20 years. The meter has industry leading accuracy that ensures even very low flows are measured down to the very last drop. This improves the quality of your data and helps you reduce non-revenue water.



flowIQ® 2100 & 3101 series Encoded Meter

- The reliable and flexible solution for water metering



Ultrasonic water meter

flowIQ® 2100 & 3101 series Encoded Meter ensures that the consumption of every single gallon of water is accurately registered and billed. Tamper-proof with no moving parts, flowIQ® 2100 & 3101 series Encoded Meter is resistant to typical wear and tear experienced by mechanical moving parts of nutating disk, piston, and multi-jet type meters. flowIQ® 2100 & 3101 series Encoded Meter reads and sustains ultra-low starting flows throughout its entire lifetime.



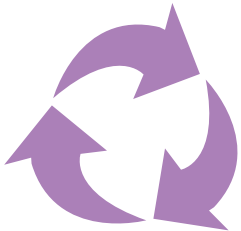
Smart and robust design

The vacuum sealing and IP68 packaging enables installation in meter pits with no risk of moisture intrusion and condensation. The flowIQ® 2100 & 3101 series Encoded Meter uses UI-1203 protocol and equipped with an auto detect TRPL interface so that no reprogramming is necessary. The meter is configurable to 4-9 reading digit output resolution and extended alarm data.

The modular cable system

The cables are field replaceable and interchangeable, as well as submersible and waterproof IP68 rated.

Available cables	Nicor	Itron	TRPL	3-wire flying lead
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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 or lead-free brass. Another key advantage of the flowIQ® 2100 & 3101 series Encoded Meter 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.

Technical specifications

	flowIQ® 2100	flowIQ® 3101
Connection size	¾" to 1"	1¼" thread, 1½" thread & flange, 2" thread & flange, 3" flange
Start flow	0.015 GPM	As low as 0.04 GPM
Max flow	Up to 32 GPM	Up to 350 GPM
Saturation flow rate	Up to 42 GPM	Up to 500 GPM
Pressure loss	4.1 PSI at 15 GPM	4.0 PSI at max GPM
Ambient operating temperature	35 °F to 140 °F	35 °F to 140 °F
Fluid temperature	33 °F to 140 °F	33 °F to 120 °F
Storage temperature empty sensor	-10 °F to 140 °F	-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	
LCD register display	Nine digit display with up to 3 decimals in Gallons, Ft ³ or m ³	
Accuracy	Complies with AWWA guidelines Meter approved for 33 °F..85 °F: ± 3 % in extended low flow range ± 1.5 % in 'normal flow' range	
Max. operating pressure	250 PSI [17 bar]	300 PSI [21 bar]
Battery	3.65 VDC, 1 C cell lithium, supports extended data set	
Communication	Encoded output UI-1203 communication protocol with extended alarms	
Meter housing and flow part	Composite PPS	Stainless steel or lead free Brass
Standard	Conforms with NSF/ANSI Standard 61, FCC Part 15, AWWA M6, 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