


flowIQ® 3100

**kamstrup**

## Commercial and industrial water meter

- Proven ultrasonic technology with no risk of wear and tear
- Pinpoint accuracy at both high and low flow rates
- Leak detection to limit water loss for end-users
- Communication interoperability for remote reading



A high-angle, rear-view photograph of a rowing team in a blue racing shell on a body of water. The team consists of several rowers wearing red tank tops and black shorts, all focused on their stroke. The water is dark green with visible ripples and a wake from the boat. The perspective is from the stern of the boat, looking forward along the length of the shell.

## The ideal ultrasonic meter for commercial and industrial use

The consumption patterns of commercial and industrial customers often fluctuate between low and high flow rates. flowIQ® 3100 uses a bidirectional ultrasonic measuring technique to ensure that the consumption is always measured accurately. The meter has no built-in moving parts and is therefore less sensitive to impurities in the water and to wear and tear. This ensures increased longevity and better performance compared to traditional mechanical meters.

## Say goodbye to manual meter readings

The flowIQ® 3100 comes with integrated communication that allows for safe and easy remote reading through Wireless M-Bus, Wired M-Bus and Sigfox - without any add-on devices.

This means that you can say goodbye to manual meter readings and estimated calculations. You can significantly decrease your data collection time and avoid time-consuming follow-ups on lacking or imprecise readings. These follow-ups only disturb your end-users. Instead, you can spend your resources on more value-creating customer services.



### Connect your meters to the Internet of Things

The flowIQ® 3100 is now also available with Sigfox communication in an innovative but tried and tested solution that takes IoT within smart water metering from theory to concrete reality.

## Accuracy

Kamstrup operates an ISO 17025 accredited flow calibration laboratory to ensure the accuracy of our water meters.

flowIQ® 3100 ensures high measurement accuracy through robust construction, material quality, calibration and testing of all meters at three flow rates.

## Discover the value of your data

### More than consumption metering

Intelligent alarms from the meter let you quickly detect leaks, bursts or other irregularities, such as tampering attempts or reverse flows. This limits water loss as well as any collateral damage to the distribution system.

### Reducing Non-Revenue Water

The flowIQ® 3100 is beneficial for reducing the apparent water loss in commercial and industrial installations. Inaccurate metering can lead to an underestimation of the actual water use and hence a higher level of Non-Revenue Water for the utilities. The risk of this happening is more significant with commercial customers due to the tendency for high water consumption. Minimizing Non-Revenue Water consumption is important to save energy, money and preserve our environmental resources.

## Product range

Meter Size Q <sub>3</sub> [m <sup>3</sup> /h]	Connection on meter	Length [mm]
1.6	G¾B	110
2.5	G¾B / G1B / G5/4B	110 / 190 / 175
4.0	G5/4B	175 / 260
6.3	G5/4B / G1½B	260
10	G5/4B / G1½B / G2B	260 / 260 / 300
16	G2B / DN50	300 / 270
25	DN50 / DN65	270 / 300
40	DN65 / DN80	300
63	DN80	300
100	DN100	360

## Technical specifications

Nominal flow	1.6...100 m <sup>3</sup> /h
Start flow	2.0...80 l/h
Pressure loss	0.05...0.47 bar
Water temperature	0.1...50 °C (cold water)
Environmental/ambient/standard class	IP68, 100 % submersible. Fulfills OIML R49 class B and C (B and O, new MID) indoors/outdoors
Pressure stage	1600 kPa (PN16)
Display	Total usage [m <sup>3</sup> / liters] (5 / 3 digits) Alarm codes (Leak, Burst, Dry, Reverse, Tamper)
Integrated radio transmitter 868 MHz. for remote reading (Mode C1 & T1 - OMS & Sigfox)	Mode C1 & T1 - OMS: Transmits data every 16 or 96 seconds Sigfox: Transmits data once a day* * Transmitted data: Consumption values and info codes are always transmitted. In addition, several combinations are possible if you need information on max and min. flow or temperature.
Battery	Lifetime up to 16 years
Meter housing and flow pipe (wetted parts)	Fiberglass reinforced composite
Approved for drinking water in	AT, BE, CH, CZ, DE, DK, FR, GB, HU, IT, NL, PL, RO, US

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