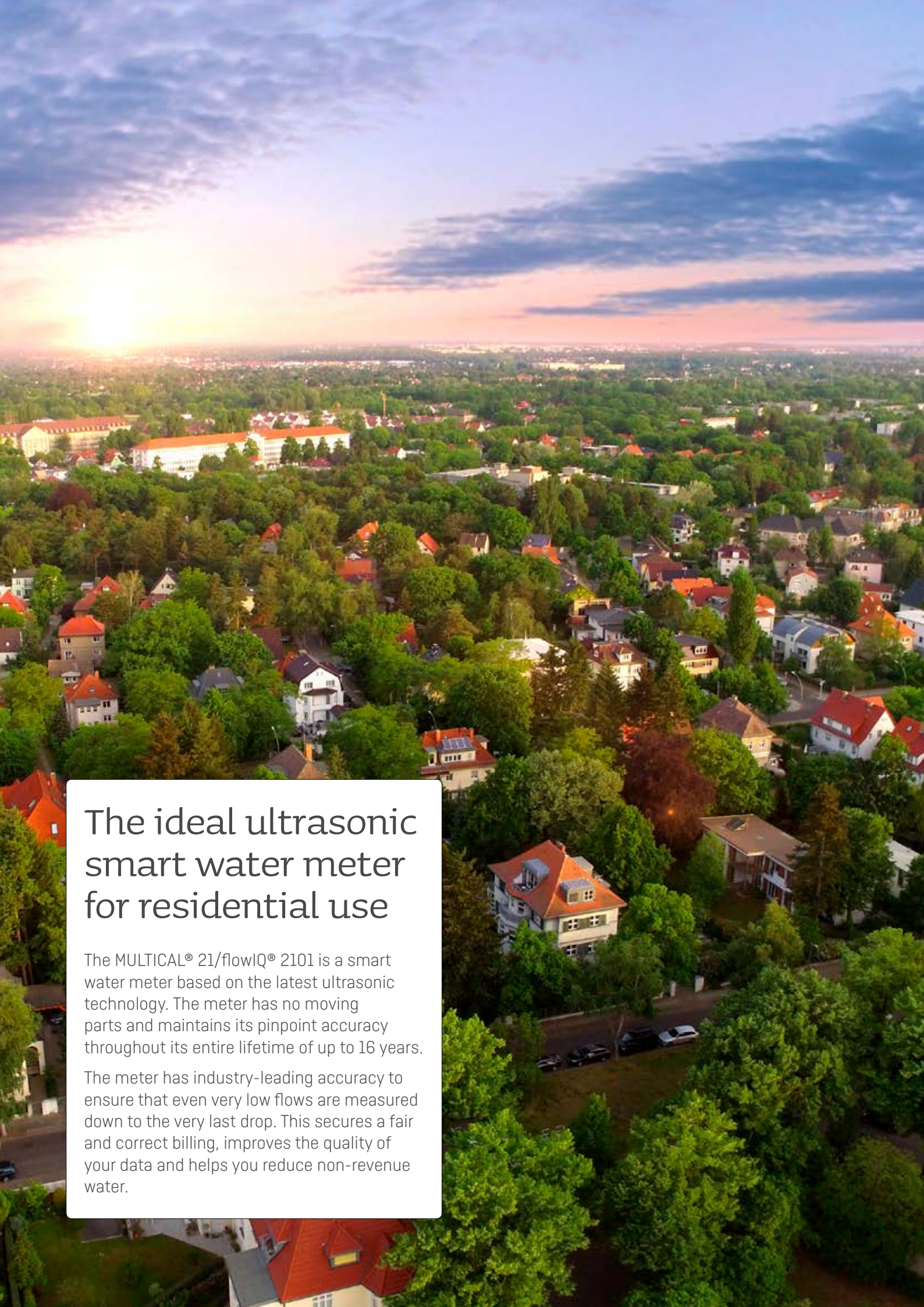# MULTICAL® 21 & flowIQ® 2101

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

The ideal ultrasonic smart water meter for residential use

The MULTICAL® 21/flowIQ® 2101 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 16 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.

Say goodbye to manual meter readings

The MULTICAL® 21/flowIQ® 2101 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 MULTICAL® 21/flowIQ® 2101 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.

Tap into the value of your data

More than consumption metering
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 MULTICAL® 21/flowIQ® 2101 enables you to monitor both the ambient temperature and the temperature of the water. MULTICAL® 21/flowIQ® 2101 can forewarn you if the water quality has possibly changed or if there is a high risk of bursts due to frost.
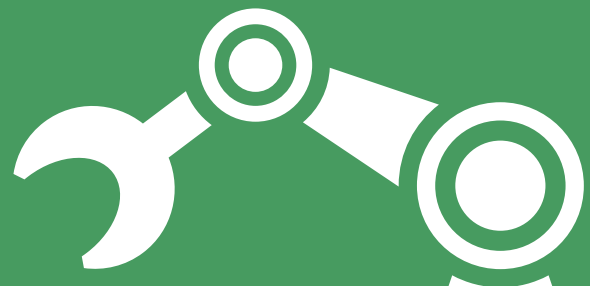
Improve your customer service
With the MULTICAL® 21/flowIQ® 2101, you are well prepared to handle customer enquiries, and you can give the end-users access to detailed information about their own consumption.

Smart meter
– smart design

The MULTICAL® 21/flowIQ® 2101 is made from 100% eco-friendly and durable composite. The meter is fully watertight and can be installed without any risk of water ingress or condensation in the display.

Our fully automated production process ensures consistent quality and hygienic, accurately calibrated meters.

MULTICAL® 21 & flowIQ® 2101

Product range

Meter Size Q_3 [m³/h]	Connection on meter	Length [mm]
1.6	G¾B	110
2.5	G1B / G¾B / G1B	105 / 110 / 130 / 190
4.0	G1B	130 / 190

Technical specifications

Nominal flow	1.6 / 2.5 / 4.0 m³/h
Start flow	2.0 / 2.0 / 3.2 l/h
Pressure loss	0.25 / 0.55 / 0.38 bar
Water temperature	0.1…50 °C (cold water) 0.1…70 °C (hot water)
Environmental/ambient/standard class	IP68, 100 % submersible. Fulfils OIML R49 class B and 0 (indoors/outdoors)
Pressure stage	1600 kPa (PN16)
Display	Total usage [m³ / 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)	Glass fiber reinforced PPS composite
Approved for drinking water in	AT, BE, CH, CZ, DE, DK, FR, GB, HU, IT, NL, PL, RO, US

Think forward