Smart water metering by Kamstrup

Enhance operational efficiency, ensure network control, and minimize water loss with smart metering solutions.

kamstrup

The future of water metering

Major global trends, such as climate change and population growth, are having a profound effect on the water industry. Reducing non-revenue water, managing the aging infrastructure, and optimising operations are key to ensure safe and steady water supplies. There is a lot on the line for securing the future of our drinking water resources.

How do you not just manage these challenges, but overcome them and improve the distribution network in the process? We believe that the answers to our industry's challenges can be found through digitalisation and intelligent use of data. The potential of smart water metering goes far beyond accurate billing. It can light up your distribution network and give you the knowledge you need to effectively target your efforts and be proactive rather than reactive.

With ultrasonic water meters, we have a world of knowledge available at our fingertips, and we can achieve a level of accuracy and efficiency that was unthinkable just a few years ago. It's no longer just a matter of increased accuracy and metering of water consumption. It's also about reducing water loss, strengthening consumer relations, and optimising operations – about quality management, revenue protection, asset management, and so much more. It's about being able to make the right choices and choose the right investments.

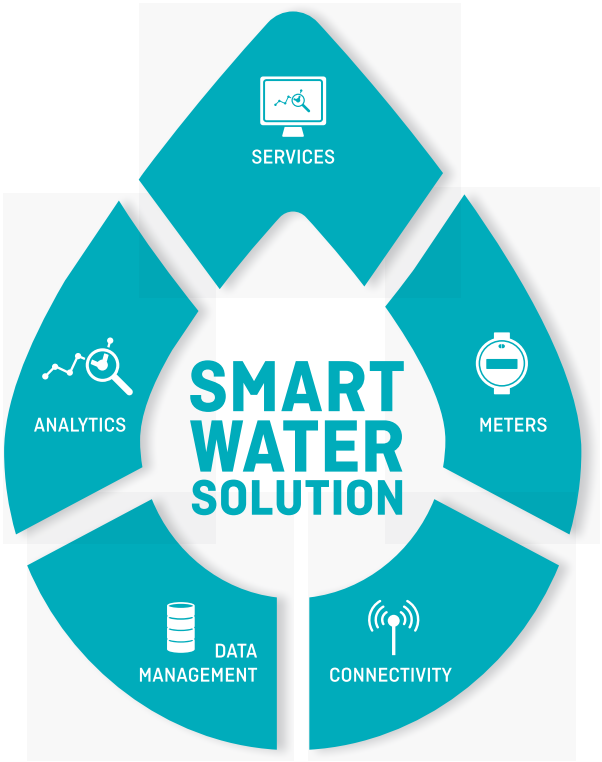
With smart metering solutions from Kamstrup, you can improve your system's capabilities today and gain the confidence to solve the challenges of tomorrow.



Intelligent solutions for water utilities

Based on more than 30 years of experience within ultrasound metering,, we deliver smart metering solutions from individual meters and remote reading systems to fully automated service solutions.

We provide utilities around the world with state-of-the-art ultrasonic water meters, high-performing remote reading solutions, as well as intelligent data analytics. Our solutions come in all shapes and sizes, but while every project is unique, our starting point is always the same: you, the customer.



RELIABLE // TRANSPARENT // SCALABLE // VALUABLE



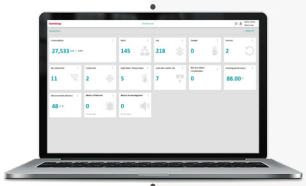
Meters

All our meters are based on proven ultrasonic technology with pinpoint accuracy and top-tier quality. Our range of meters covers residential, commercial, and industrial purposes, offering intelligent metering for all needs and wants.

LoRaWAN®
NB-IoT
wM-Bus
linkIQ®

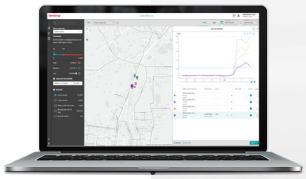
Connectivity

To ensure high network performance, our meters support a wide range of communication technologies, including wireless M-Bus, NB-IoT, LoRaWAN®, and linkIQ®, providing stable meter reading in all types of environments.



Data management

We offer a variety of automated meter reading solutions, stretching from meter reading hardware to meter data management software. This includes drive-by, fixed network, and IoT solutions.



Analytics

Your meter data is automatically organised, visualised, and analysed to give you knowledge on water loss and incidents, enabling you to target your efforts for improved efficiency.



Services

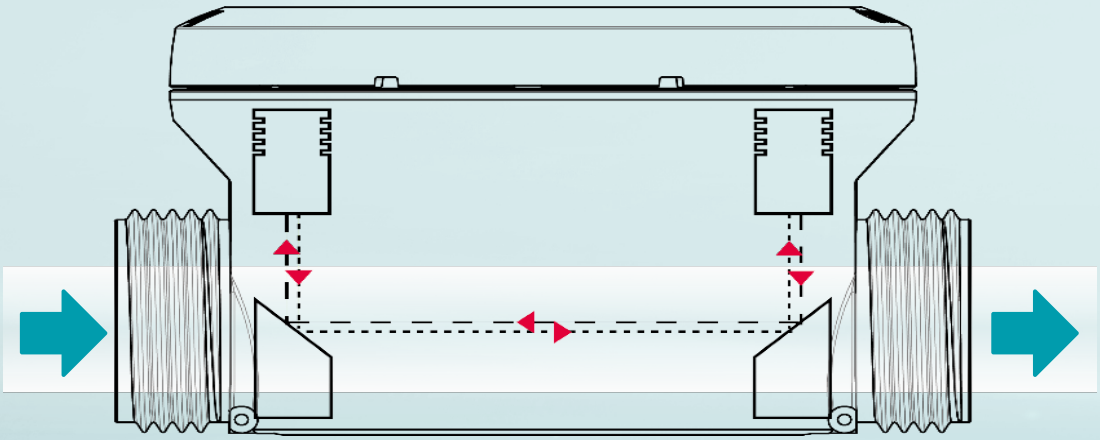
Depending on your needs and wants, we offer various service packages in different shapes and sizes, ranging from day-to-day technical support, onboarding, and training, to network hosting and full-service solutions.

Ultrasonic water metering

In the past, the mechanical meter was a natural choice. But in today's digital world where the need for communication and connectivity increases by the day, good is no longer good enough. With ultrasonic smart metering, you secure a future-proof technology that offers numerous benefits to support your business.

The ultrasonic meter has no moving parts, making it unaffected by wear and tear to maintain pinpoint precision throughout its entire lifetime. Besides enabling correct billing, this also enhances data quality. In contrast to the mechanical meter, the ultrasonic meter also holds remote reading capabilities without the use of any add-on devices. Not only does this contribute to a significant decrease in data collection time. It also improves resource distribution as you avoid misreadings and follow-ups, save time and money for more value-adding activities, and obtain a broader spectrum of data from which you can better service your customers.

Finally, intelligent alerts in the ultrasonic meter enable efficient detection of leaks, bursts, water loss, reverse flows, and much more, thereby lowering the amount of non-revenue water.



Ultrasonic measurement principle

Two transducers send an ultrasonic signal in each direction through the water flow. The flow rate is calculated based on the difference in speed between the two signals and the inner diameter of the pipe.

Meters with outstanding product quality

Choosing a meter is more than a purchase – it's an investment that will decide the future of your system. With our meter, you get more than just a high-quality product; you secure peace of mind for the next decade and beyond. Our meters are designed to provide lasting accuracy, minimal maintenance, and data-driven insights that optimise your operations. Because we believe quality is a promise that should stand the test of time.

By understanding the full impact of quality and choosing meters with best-in-class product quality, it will set your water utility up for success. That is why we never compromise on our product quality. Every single meter delivered by Kamstrup has been through the same individual quality assurance process to deliver the highest possible performance throughout its entire lifetime.

Installation process

With first time success

Lifetime increased accuracy

In meter readings

Best-in-class optimized battery lifetime

Priority modes, accommodating data or battery preference



Lower failure rate

On your meters during the lifetime

Data quality

That enable better, safer and faster decisions

Minimized non-revenue water

With patent build-in leak detection

Enclosure class

In 'hostile' environments

Scan the QR code to learn more about our product quality

Remote meter reading

Aside from the time saved compared to reading your meters manually, remote reading helps you eliminate misreading errors, time-consuming follow-ups, and estimated calculations. You get easy and secure access to meter data – without having to disturb your end-users.

By allowing you to look at consumption and supply data from readings made at the same time, remote meter reading increases the quality of your data and makes it easier to analyse. Also, the increased reading frequency lets you evaluate the effects of your improvements and discover problems much sooner instead of just once a year.

It's easy to get started with remote reading. We offer a variety of automated meter reading and smart metering systems – from handheld devices and drive-by solutions to fixed networks with data coming in daily, hourly, or even at five-minute intervals – along with user-friendly data management programs.

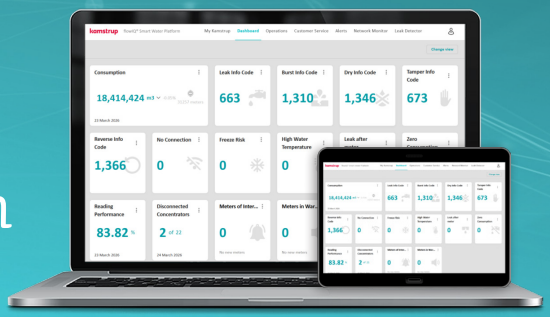
To take remote meter reading to the next level, we have combined meter data management and analytics in one software: flowIQ® Smart Water Platform. Built on the READy platform, our new software collects all your meter data in one place, providing instant access to all your data insights from one single dashboard.

Communication technologies

Manual collection	Remote meter reading	
DRIVE-BY OR WALK-BY	**PRIVATE NETWORK**	**PUBLIC NETWORK**
M-Bus wireless	M-Bus wireless	LoRaWAN
	LoRaWAN	NB-IoT
	linkIQ®	



flowIQ®
Smart Water Platform



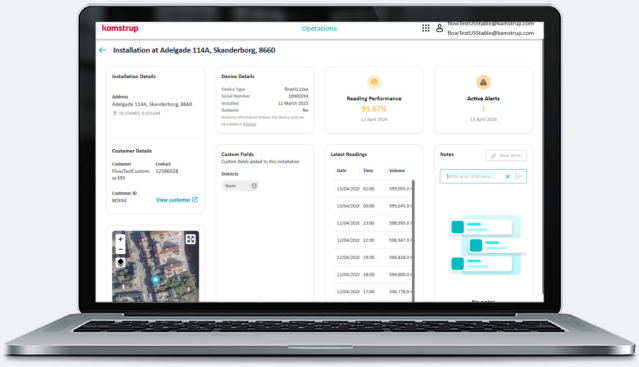
With the flowIQ® Smart Water Platform, you can say hello to highly efficient water management made simple. It's a digital tool that combines meter data management and analytics, designed to make data-driven water management user-friendly and time-efficient, reducing your point of attention to one single platform.

Installation & device management

– Find out all you need to know at once

The flowIQ® Smart Water Platform gives you a complete overview of your meter assets in one place. Access key information such as network quality, signal strength, antennas, installation dates, meter locations, device data, and current readings – all with just a few clicks.

You can also add custom information to each installation site, giving you full flexibility to manage your meters your way. And for quick troubleshooting, the platform helps identify both poor-performing meters and disconnected concentrators.



Consumption analysis

– Accurate billing and demand forecasting

The flowIQ® Smart Water Platform provides instant access to invaluable consumption data. This allows you to investigate consumption patterns, including large customers and historical trends, and show total consumption within userspecified time periods.

By leveraging consumption data, you can efficiently manage resources and improve demand forecasting, enabling you to anticipate demand and customise thresholds for large customers. This way, you can improve billing accuracy, optimise operations, and improve efficiency.

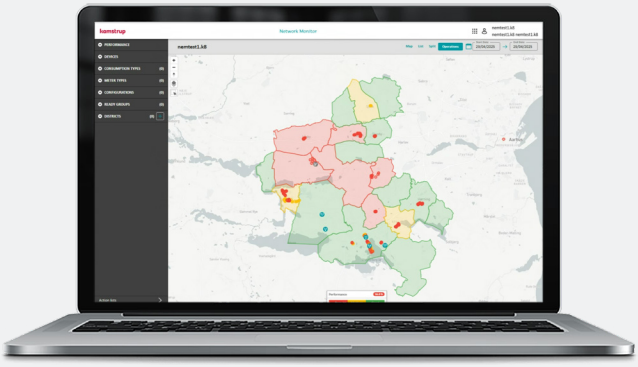


Network monitoring

– Ensure high network performance

Resolve network issues quickly using Network Monitor, now integrated into the flowIQ® Smart Water Platform. It's a data performance monitoring system that creates a visual map of your metering network, displaying the data performance of your meters and the transmission status of your connectors..

By providing a holistic view of your network's overall data performance, Network Monitor lets you troubleshoot meters with poor signal strength, allowing you to stay on top of low meter reading performances as soon as they occur. This way, water utilities can preserve high-quality network performance, providing the high-resolution data needed to ensure stable smart water metering at all times.

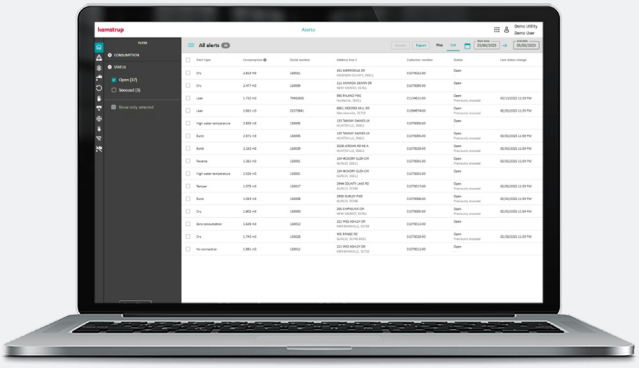


Intelligent alerts

– Target your efforts

The platform's dashboard provides an icon-based overview of all meter alert categories, including meter-based alerts showing leaks, bursts, dry, reverse flow, and tampering, along with new software-based alerts showing meters with connection loss, high water temperature, and freeze risk, zero consumption and leak after meter risk.

Using its sharp filtering and helpful snoozing options, the platform lets you analyse selected alerts within specific timeframes. This allows you to focus on one challenge at a time to target your effort where it matters most.

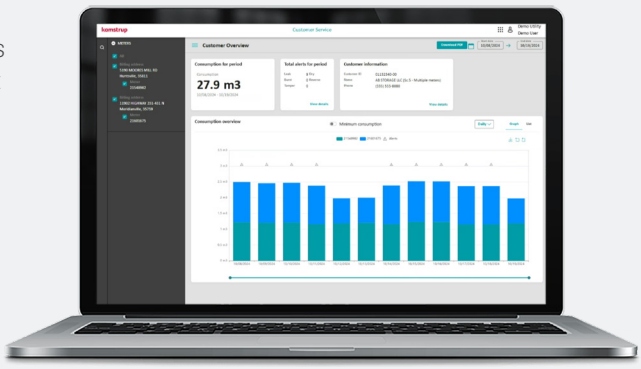


Customer service

– Top-tier service in one phone call

The flowIQ® Smart Water Platform features unique, customer-specific analysis tools, providing instant access to in-depth customer insights to deliver quick, competent answers on all billing-related matters in just one phone call.

With the platform's search function, you can type in the customer's name or address to gain instant access to detailed consumption data from their meters, along with a satellite view of their locations. You can also provide them with a PDF file as documentation of their data to ensure complete transparency. It's customer service with confidence: easier, faster, and more fulfilling than ever.

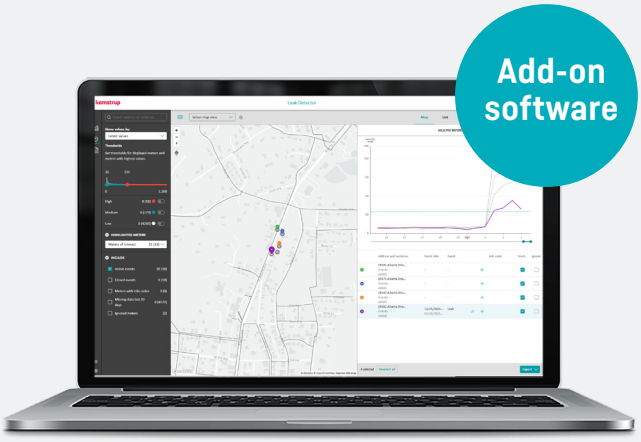


Leak Detector (add-on)

– Automated leak detection system

Leak Detector is a leak detection system that uses acoustic noise data from flowIQ® smart water meters to detect insensible water loss, allowing utilities to reduce non-revenue water with great efficiency and at much lower costs per identified leak.

Using an advanced algorithm based on data from more than 1 million meters, Leak Detector automatically interprets the data from your meters and identifies locations with high leak plausibility. Since 2019, the system has helped water utilities around the world find and repair more than 5,000 otherwise hidden leaks.



How to get started

Implementing a modern Meter Data Management platform should always be straightforward. The flowIQ® Smart Water Platform is designed to help utilities get started quickly and realise value from their smart metering data from day one.

Whether you're deploying a new smart metering solution or expanding an existing network, the platform provides the foundation needed to manage your meters, devices, and data efficiently throughout their lifecycle.

A structured onboarding process ensures a smooth transition, giving your organisation access to reliable meter data, intuitive workflows, and actionable insights from the very beginning.

Your journey starts with four simple steps



Connect your metering infrastructure

Establish a reliable foundation by connecting your smart meters and communication network to the platform.

Configure devices and installations

Manage meter installations, replacements, and device information in one centralised system.

Access data and insights

Gain instant visibility into consumption, network performance, and operational status through intuitive dashboards and analytics.

Expand as your needs evolve

Activate additional capabilities and applications to support new operational goals and unlock further value from your data.

With a scalable platform and continuous innovation from Kamstrup, you can start with today's needs and stay ready for future opportunities.

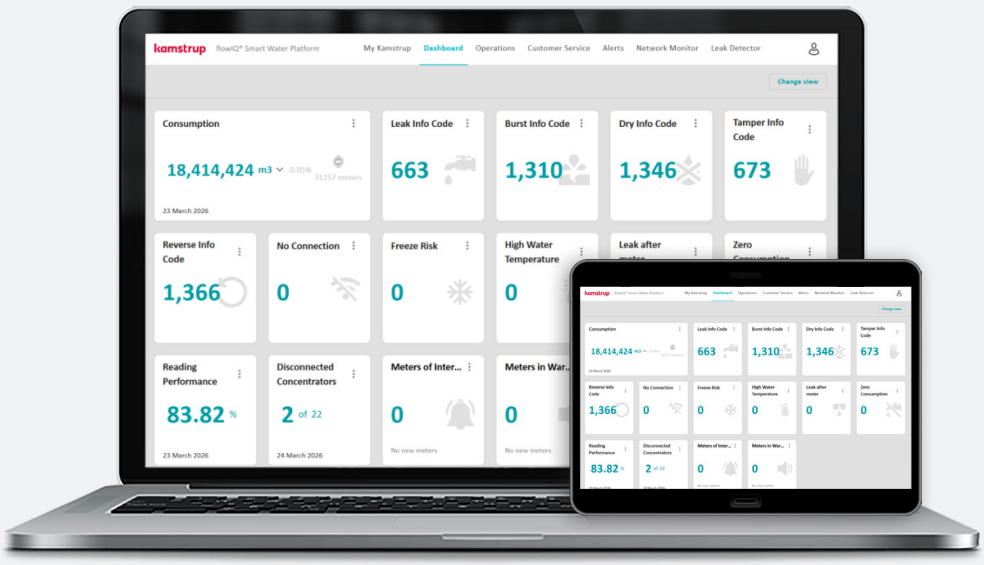
A platform designed to grow with your utility

The flowIQ® Smart Water Platform is built to evolve. As utilities expand their digital ambitions, we will continue to add new capabilities, insights, and workflows that help customers operate more efficiently, reduce water loss, and deliver better service.

Our development approach is founded on close collaboration with utilities. Through ongoing dialogue and co-creation, customer needs and real-world experiences help shape the platform roadmap, ensuring that future innovations create practical value where it matters most.

With a strong Meter Data Management foundation, integrated applications, and a commitment to continuous innovation, the flowIQ® Smart Water Platform is more than a software solution. It's a long-term always-at-hand digital partner for the water utilities of today and tomorrow.

Together, we shape the future of smart water management.



Services

In an everchanging world, we help you drive change. We are here to support you in delivering value to your consumers. From initial onboarding and training, project roll-out, hosting and operation to maintenance, testing and optimization, Kamstrup is your full-service solution provider.



System Support
Fast and effective support for your meter reading system.



System Hosting
Leave all server operation, software installation, maintenance and data back-up to us.



System Operation
We operate your entire meter reading system and monitor its performance.



Product Service and Support
We help you with everything from technical support and documentation to repairs and legal control.



Customized Services
From short-term help or long-term guidance for specific tasks or comprehensive projects.



Training and Courses
We offer both standard and customised training in Kamstrup hardware and software.

The next step...

Every utility's journey is different, but the goal remains the same: delivering water efficiently, sustainably, and with confidence. With Kamstrup, you get a complete solution built on proven metering technology, flexible connectivity, intelligent software, dedicated support, and decades of industry experience.

Together, we turn your data into action and make it matter. We reduce non-revenue water, improve efficiency, and unlock new opportunities that create lasting value across operations.

We Make What You Measure Matter

LinkedIn
Follow Kamstrup for regular updates, industry news, and customer stories.

Newsletter
Receive the latest expert insights and news stories directly in your inbox.

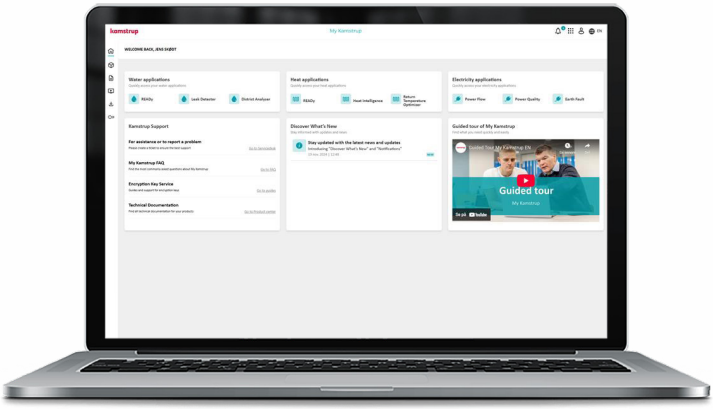
Want to hear more?
Scan the QR code and let's get the conversation started

MyKamstrup utility portal

MyKamstrup is a web-based platform for utility customers, providing a gateway portal to all your Kamstrup applications, secured with a login based on credentials.

With MyKamstrup, you get easy access to all our customer-centric digital services, allowing you to manage your meters, set up security, track past orders, review encryption key download history, and access guides and training material that can help you make the most of your Kamstrup solution.

It's everything available to you in one place.

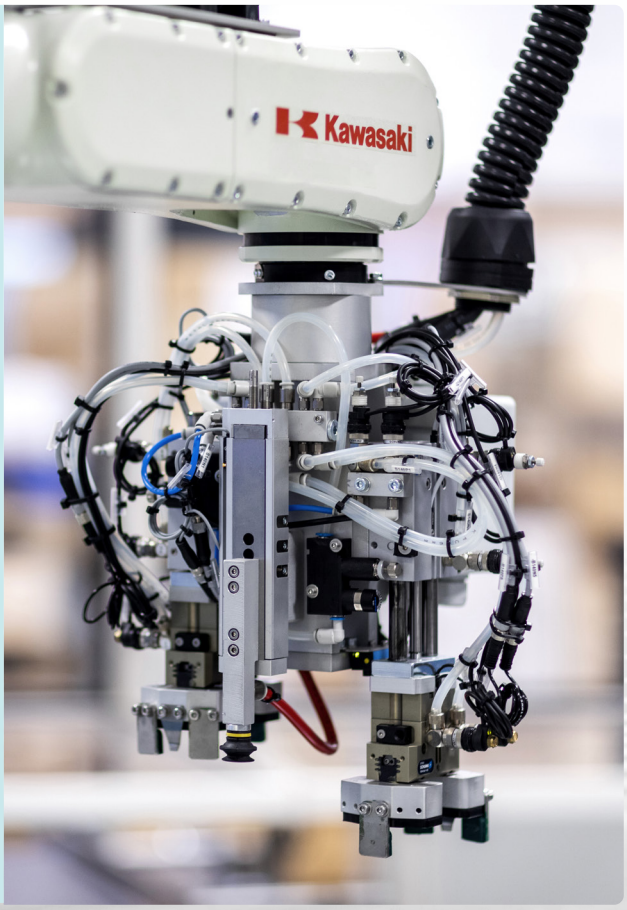


Automated production

Kamstrup is known around the world for our high quality and near-zero failure rates. Built in our fully automated production facilities with advanced robotics, our products deliver repeatable precision free from human error.

Every single Kamstrup meter goes through the same individual quality assurance process, tested on substantially stricter tolerances than required by regulations. This way, we provide reliable, long-lasting meters that can be trusted, delivering the highest possible performance throughout the entire lifetime.

All production is tightly controlled physically and environmentally, and all Kamstrup documentation and traceability are credited through ISO 9001, 14001, 45001, 27001, and 17025 standards for total transparency. Overall, this makes our laboratory one of the most sophisticated flow laboratories worldwide.



Value created around the world

Acoustic leak detection helps Vacarisses reduce water loss and optimise operations

In Vacarisses, a mountainous municipality near Barcelona, the local water utility was challenged by drought problems and leakages from unknown sources equivalent to 40% of the total consumption. By replacing old meters with flowIQ® 2200 smart water meters, the municipality is quickly improving its water distribution network and reaping the benefits of digitalisation.



Read more and watch the case video

Yearly **savings of €70,000**

Reduced time spent on meter readings from **3 weeks to 5 hours**

Ultrasonic water meters improve network efficiency through improved leak detection

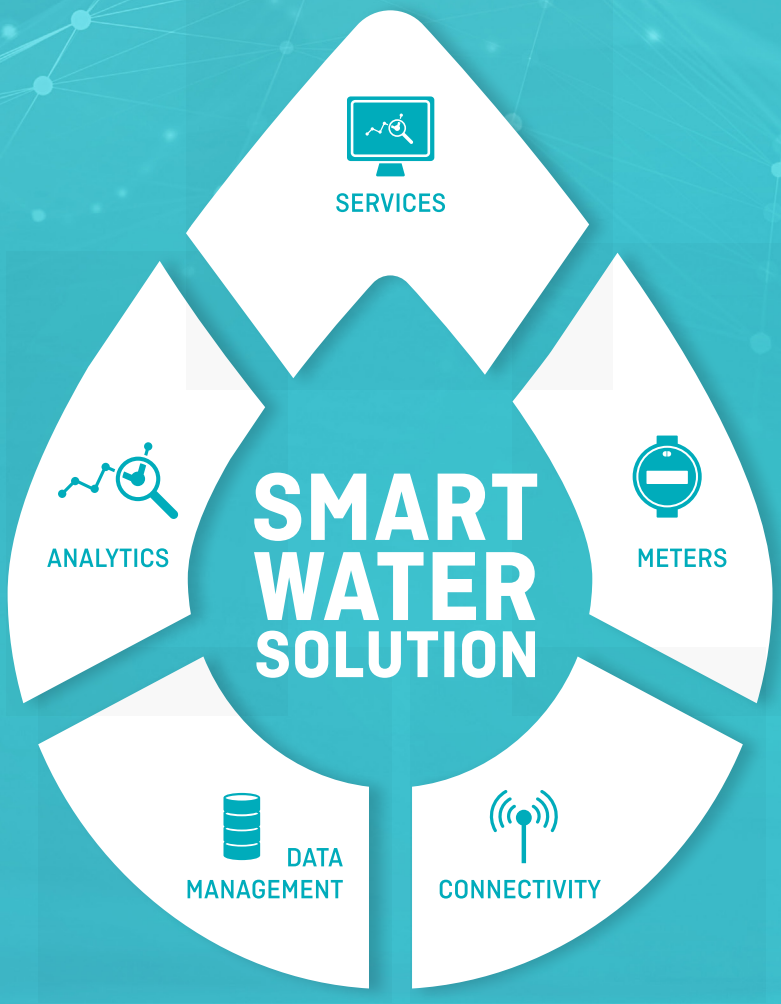
In the French part of the Eastern Pyrenees, a persistent drought has made a heavy impact on the region's water resources. To secure a stable water supply, Eau Agglo Perpignan Méditerranée, a Veolia-owned company responsible for local water management, replaces 126,000 mechanical water meters with ultrasonic Kamstrup meters.



Read more and watch the case video

120 leaks detected in 2024

Pushing the **network efficiency** rate **above 89% by 2026**



We Make What You Measure Matter

Kamstrup A/S
Industrivej 28, Stilling
DK-8660 Skanderborg
T: +45 89 93 10 00
info@kamstrup.com
kamstrup.com

kamstrup