

/HydroMet

Water. Weather. Environment.

KISTERS
Empowering decisions of tomorrow

Market-leading sensors, software and turnkey solutions.

With a full workload, collecting and managing the data needed for analysis, reporting, decision making and publishing can be overwhelming. That's why, for more than 60 years, we've been developing end-to-end software and sensors that integrate seamlessly to improve operational efficiency, meet the demands of weather and water management and monitoring, and reduce the burden on your team.

When you need more time and bandwidth to solve big problems, our tools help you measure what's happening with water, the environment and the weather; explore your data; and gain insights to make decisions that matter to you and your community.

Whether you're an expert, a generalist or a senior decision-maker, we can make sure you get the data you need. Plus, you can share data, intuitive visuals and dashboards across your organisation, with stakeholders outside your organisation and with the general public.



Our expertise.

Surface water, groundwater, irrigation and hydrology.

Measure and report the health of lakes, streams, rivers, aquifers, and watersheds.

Water quality and ecology.

Plan, sample, review, and report on water quality and ecological data from the field or lab.

Meteorology and climatology.

Prioritise operations and protect assets and lives as you monitor current and future local weather.

Rainfall and flow forecasting and warning.

Lessen risks at hotspots or catchments with accurate rainfall, water level, and flow data and forecasts.

Hydropower, dams and reservoirs.

Optimize power generation, water, and revenue; also measure dam safety and meet regulatory constraints.

Drinking water, sewage and wastewater.

Achieve compliance and outcomes as you monitor, analyze, and report on water treatment operations.

Paper chart digitization.

End storage costs and put validated historical data to work as we digitize paper charts.

Safety comes first.

At KISTERS, information security is a core priority. Our certified Information Security Management System (ISO 27001) ensures rigorous protection across all operations. KISTERScloud services comply with SOC 2 Type 2 and BSI C5 Type 2 standards, managed in a TÜV TSI-certified data center. We follow industry best practices like S-SDLC, incorporating frameworks from BSI, NIST, and OWASP, to deliver secure SaaS solutions and safeguard your data with precision and care.



➤ **Data processing centre Aachen:**
TÜV-TSI certification

➤ **KISTERScloud Services:**
- Certification according to ISO 27001 and BSI TR-03109-6 (Smart Meter Gateway Administration)
- SOC 2 Typ 2 and BSI C5 Typ 2 (KISTERScloud Services division)

➤ **Support Energy, HydroMet, EHS:**
Certification according to ISO 27001

➤ **Certified software development and products:**
Guided by the secure software development lifecycle (S-SDLC) framework and relevant best practices advocated by BSI, NIST, and OWASP among other well-respected organizations.

Cloud first.

Designed for all customers – not just those with a cloud-first strategy – our certified data centre called KISTERScLOUD ensures expert-managed security, infrastructure and regular software and hardware updates, as well as proactive maintenance to keep your services up to date.

Remote hosting.

Secure, scalable, and reliable hosting for your data.

KISTERS' remote hosting service provides secure, reliable, and scalable IT infrastructure for managing environmental data. We protect your information with robust security measures, regular backups, and disaster recovery to ensure uninterrupted operations. Our cloud-based solutions are designed to simplify IT management, especially for organisations with limited in-house resources.

Your benefits.

1

More time for your core business.

2

Up-to-date, highly available systems at predictable costs.

3

No in-house structures or personnel required to operate the software.

4

No more time spent on the administration of the IT infrastructure and on updating the application software.

5

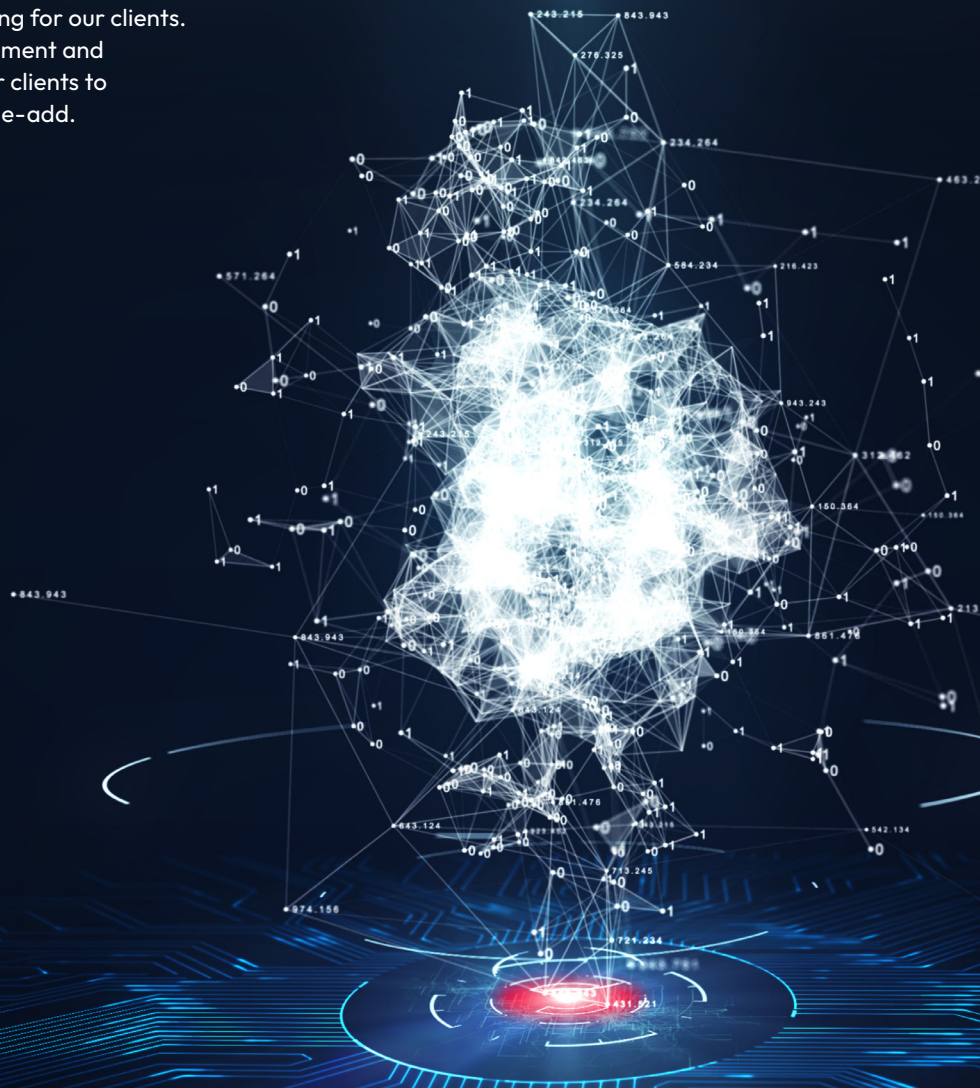
Fast access via the Internet.

6

Efficient IT support for your business processes.

State of the art.

KISTERS has integrated its environmental data management solutions with external systems and algorithms for many years. Via our KISTERS Analytics framework we take advantage of the latest developments in AI and other advanced analytical methods and build targeted solutions to gather process data and orchestrate AI to forecast flows and water levels, optimize operations for reservoirs and retention structures, and estimate imminent flooding for our clients. We research continuously on the development and integration of new AI applications for our clients to deliver more actionable insights and value-add.



Our products, services and solutions.

For smarter water, weather, and environmental management.

Expert water data management
K WISKI

Environmental data management
K Hydstra

Live cloud-based rainfall monitoring
K HydroMaster

A cloud-based data hub for environmental data
K datasphere

Complete hail monitoring system
K HailSens360

All-in-one smart irrigation monitoring system
K FieldRay

Field data collection mobile app
K FieldVisits

Paper chart digitisation services

A wide range of environmental sensors and instrumentation



What characterises our solutions:

They not only address the diverse needs of professionals managing water resources, weather data, and environmental systems but also ensure that data is accessible, accurate, and actionable. By fostering collaboration and compliance across sectors, our solutions support informed decision-making and sustainable management – from hydrological services to environmental monitoring and beyond.

WISKI

The Water Information System from KISTERS, WISKI, is the expert all-in-one software solution for comprehensive water data management. Scalable and automated, WISKI seamlessly integrates with forecasting, alarming, and analytics tools—delivering reliable insights for smarter decision-making.

Expert water data management.

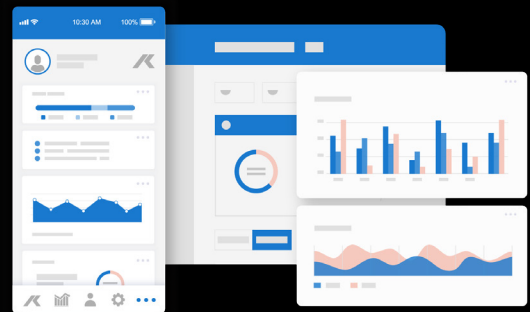
- **Unlimited storage:**
Secure valuable data with limitless capacity.
- **Data comparison/management:**
Analyze diverse data types from multiple sources.
- **Team collaboration:**
Share data for full team access and understanding.
- **Automation:**
Automate quality control and editing.
- **Streamlined processing:**
Reduce workload with efficient processing.
- **Advanced analytics:**
Get insights with reporting and alerts.
- **Software integration:**
Enhance insights via intelligent integration.
- **Scalable solutions:**
Protect your investment with free updates and scalability.

WISKI offers a wide range of extensions to enhance data analysis, visualisation, automation, and integration for seamless water data management.



Explore the WISKI extensions:

- › Easily share your data online with **WISKI Web**
- › Optimise your water quality measurement with **KiWQM and KiECO**
- › Ensure data accuracy with **WISKI Validation** plus more.
- › **WISKI Analytics** – A modular suite of advanced analytics and AI tools.

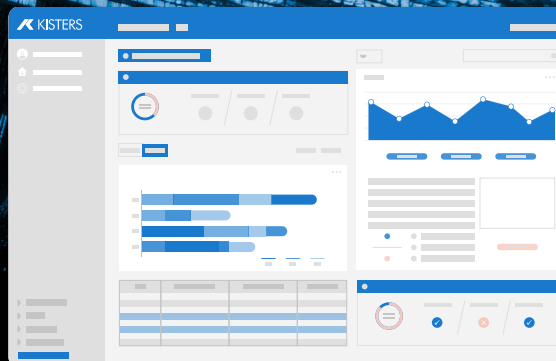


Hydstra

Your all-in-one environmental data solution, Hydstra simplifies the way you collect, analyse, and share vital data across hydrology, meteorology, and water management applications – empowering your team to make decisions that protect and shape the environment.

Environmental data management.

- **Scalable deployment:**
Adapts to any system size.
- **Graphic tools:**
Visual tools for data management, rating tables, and asset tracking.
- **Extensibility:**
API integration into broader IT landscapes.
- **Groundwater and water quality:**
Observations, sampling, and analysis.
- **Instrumentation:**
Track instruments with calibration records.
- **Data publishing:**
Effortless sharing and analysis.
- **Unlimited storage:**
Secure valuable data.
- **Team collaboration:**
Easy collaboration across teams.

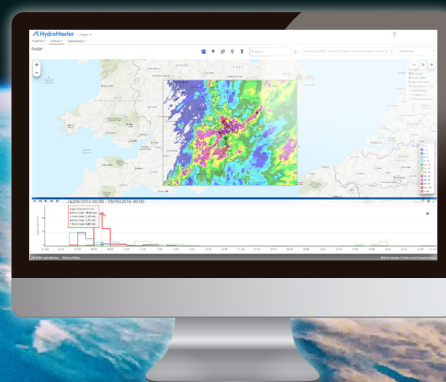


K HydroMaster

KISTERS HydroMaster is an innovative cloud-based system that monitors rainfall. Whether it's providing live, hourly weather forecasts for your area or feeding advanced optimisation models via the API, HydroMaster provides powerful, real-time data to help prevent flooding and effectively manage local weather risks.

Live web-based cloud solution for rainfall monitoring.

- **Impact reduction:**
Mitigate precipitation effects on operations and infrastructure.
- **Radar tools:**
Visualise, animate, and analyze precipitation radar and cumulative rainfall data.
- **Customisation:**
Add catchment areas, zones, and rain gauge data for local forecasts.
- **Alerts:**
Automated warnings from past, real-time, and future data.
- **Archive:**
Analyze past precipitation events.



datasphere

KISTERS datasphere brings all your environmental monitoring data into one cloud-based platform. Visualise, analyse, and act on real-time data from any source to drive smarter, more informed environmental decisions.

Cloud solution for visualisation and integration of environmental data.

- **Data integration:**
Consolidate diverse data from KISTERS and third-party loggers.
- **Data sharing:**
Share online, create widgets, and connect to open data sources.
- **Forecasting:**
Visualize forecasts, track weather, and set event-specific alarms.
- **API automation:**
Automate system integration, models, and alarms.
- **Reselling growth:**
Manage customers, control access, and customize offerings.
- **Custom alerts:**
Send unlimited real-time alerts with custom thresholds.

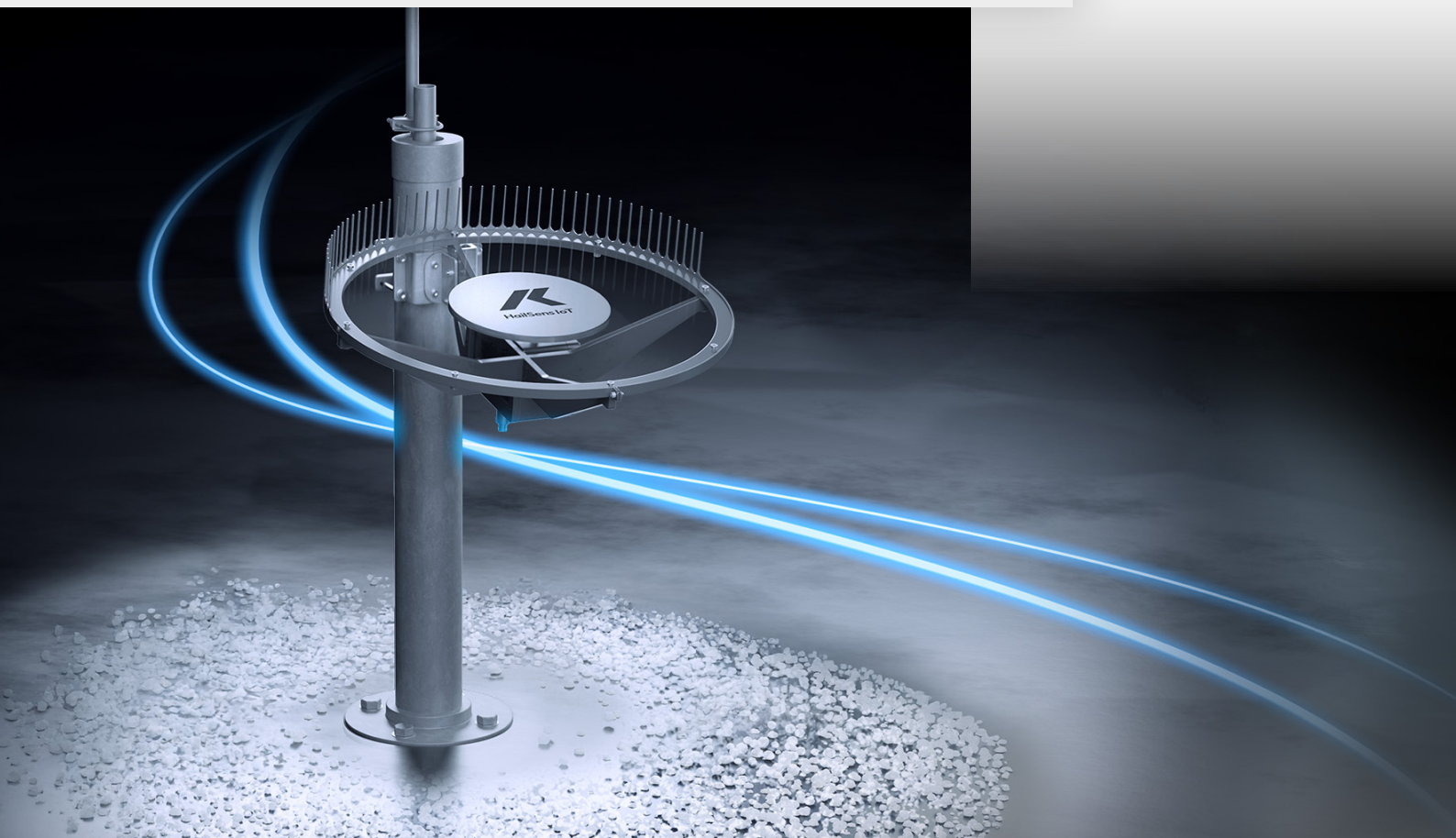


K HailSens360

HailSens360 is an advanced solution that provides real-time, high-resolution hail forecasts and real-time hail measurements to help businesses minimise damage to their assets and operations. Using a combination of weather data and sensor technology, it provides critical information on the size, location and intensity of hailstorms so you can take action before, during and after a storm. This proactive approach gives you the confidence and control to protect your valuable assets and make informed decisions to reduce potential losses from hail damage.

Manage hail risk and protect your assets with precision.

- **Real-time hail forecasts for proactive planning**
- **Accurate hailstone measurements (size, velocity, distribution)**
- **Post-event analysis for damage assessment**
- **Seamless cloud & sensor integration for easy access**
- **Minimises risk and damage to assets and operations**



FieldRay

KISTERS FieldRay is an easy-to-use, complete, end-to-end irrigation management monitoring network that supports optimal crop management decisions. Harnessing the power of the IoT (Internet of Things), FieldRay combines industry-leading sensors (weather, soil moisture), data loggers and easy-to-use software designed with the modern farmer in mind. With FieldRay, farmers can easily access data from anywhere 24/7 and visualise water uptake from the soil.

Optimise your crop's potential.

- **Enhance crop quality and yield**
- **Save water and energy**
- **Save money on pesticides and fertilizers**
- **Save time and labour**
- **Optimise available resources**
- **Control irrigation uniformity by monitoring flow rates and pressures**



FieldVisits

A configurable mobile app for fieldworkers designed for the easy collection of data in the field – whether offline or online.

Field data collection app.

- **User-friendly interface:**
Guided standard operating procedures with checkboxes, dropdowns, and multiple-choice inputs.
- **Automated QA/QC:**
Custom rules ensure essential data fields are complete.
- **Data visualization:**
View historical trends to confirm data consistency.
- **Enhanced observations:**
Add notes, photos, and videos.
- **Equipment manuals:**
Access linked PDFs or equipment manuals for calibration and maintenance.

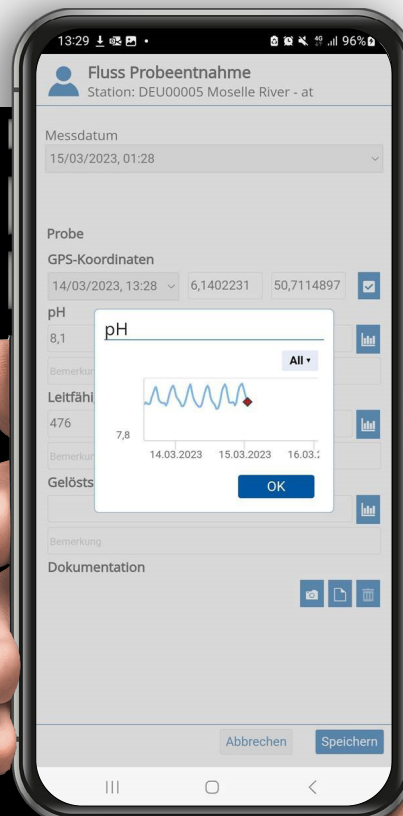


Chart digitisation services.

Many decades of weather and water level data are stored on paper charts, which are hard to access. Let us convert this analogue data into digital format, making it easily accessible and ready for use in today's modern, electronic monitoring systems.

Convert paper charts into digital ones.

- **Unlock insights:**
Analyze historical and recent data for deeper insights.
- **Prevent data loss:**
Digitize paper records before they deteriorate.
- **Ensure accuracy:**
Benefit from expert algorithms and QA/QC.
- **Eliminate storage costs:**
Store all data in a single system.
- **Full service:**
We handle chart collection, digitization, and delivery.

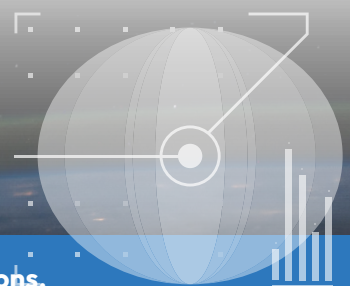
Telemetry.

Reliable telemetry for seamless data transfer.

KISTERS telemetry solutions ensure secure, real-time data transmission from remote monitoring stations to your central system. Designed for seamless integration with our sensors and software, our telemetry products support a wide range of communication protocols, including satellite, cellular and radio, providing reliable access to critical environmental data - anytime, anywhere.

Real-time data for smarter, seamless decisions.

- Real-time data transfer from remote locations
- Automated data collection, reducing manual effort
- Seamless integration with existing sensors and software
- Reliable communication through multiple network options (satellite, cellular, radio)
- Improved decision making with instant access to critical data



Environmental sensors and instrumentation.

We manufacture, sell and install a wide range of quality instrumentation, water and weather sensors, data loggers and IoT technology.

Meteorology



Water flow



Water level



Data acquisition



Water quality



Coastal



Sediment sampling



Groundwater



Agriculture



Water discharge



Hail mitigation



HailSens IoT –
Advanced hail monitoring system.

**Browse our online HydroMet product catalogue
to find out more about us and our products.**

hydrometproducts.kisters.eu/products
products.kisters.net/products
products.kisters.com.au





Support



Training



Custom solutions



Repair



Calibration



/ Contact us

KISTERS Europe | hydromet.sales@kisters.eu | kisters.eu

KISTERS Australia | sales@kisters.com.au | kisters.com.au

KISTERS New Zealand | sales@kisters.co.nz | kisters.co.nz

KISTERS North America | kna@kisters.net | kisters.net

KISTERS South America | sales@kisters-latam.com | kisters-latam.com

KISTERS Ibérica | info@kisters.es | kisters.es



Empowering decisions of tomorrow

KISTERS AG
Pascalstr. 8+10
52076 Aachen
Germany