

## Data sheet

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### **Analytics - Water Intelligence**

- Browser-based platform for data analysis
- Intuitive dashboards and detailed overview of the distribution network and potential leaks
- Advanced algorithm processing based on meter data
- Utilizing new technologies to help utilities reduce their non-revenue water

## Water Intelligence

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Non-revenue water is a well-known global problem that results in large volumes of water being lost. It is a challenge faced by many water utilities, and it is often caused by increased urbanization and ageing distribution networks. This leads to a higher demand and increased prices.

There are different approaches to finding the root cause of the water loss problem and different approaches of how it can be reduced. However, the complexity is often underestimated because of the different types of water loss, each of which needs to be dealt with differently.

With our Water Intelligence platform, you will be provided with a solution that scales to meet the demands of your utility.

With a simple and intuitive web interface, Water Intelligence is tailored and designed to bring power and simplicity to the process of fighting non-revenue water.

## Modules for Water Intelligence

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### District Analyser

Get a complete overview of your distribution network split into districts. For each district, you will receive detailed information on inlet flow, consumption, night flow and water loss, which lets you monitor developments closely, target your efforts and act as soon as the water loss increases in one district.

### Leak Detector

It can be difficult to find leaks in the system, especially those on the service pipes. With the advanced technology of Leak Detector and Potential Leaks, you get a complete overview of potential leakages in your distribution network, without searching for them yourself. By grouping meters with similar noise curves in the nearby area detecting leaks is faster, smarter and more efficient. With this application, you will receive 24/7 monitoring of your distribution network, which lets you target your efforts where they will be most effective.

## Data requirements

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### District Analyser

To make a coherent analysis of the network, it is a requirement that we can receive data from the district meter(s) in your network.

- The district meter(s) must be remotely read from an API or an FTP server
- The district meter(s) must be remotely read on a daily or hourly basis
- It must be possible to define inbound and outbound district meter(s) for each district
- The consumption meter(s) must be present in READy Manager at all times
- The consumption meter(s) must be read either through Drive-by or Fixed Network

### Leak Detector

To utilize the full potential of the Leak Detector module, we advise you to have the Fixed Network solution with daily values.

- The consumption meter(s) must be present in READy Manager at all times
- The consumption meter(s) must be read either through Drive-by or Fixed Network

## System requirements

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Kamstrup recommends that you use the Water Intelligence platform using a modern web or mobile browser to get the optimal experience.

### Browser requirements

The Water Intelligence platform supports many popular web and mobile browsers. By using one of the following browsers, we can guarantee an optimal experience:

- Microsoft Edge, latest version
- Google Chrome, latest version
- Mozilla Firefox, latest version
- Apple Safari, latest version

## Other requirements

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### Leak detection

Leak Detector, part of Water Intelligence, uses acoustic leak detection data to find leaks. Therefore, you are required to have a meter, like flowIQ® 2200 and/or 3200, installed in your distribution network.

### JavaScript

Water Intelligence uses JavaScript for many functions and features. For the full experience, it is required to enable JavaScript in your browser. Consult your browser's Help section for information on how to change this setting.

### Cookies

Some features and functions of the Water Intelligence platform, e.g. region selection for the map, user sign-in and statistical analysis, require browser cookies to be enabled. Consult your browser's Help section for information on how to change this setting. For more information about Kamstrup's use of cookies, see <https://www.kamstrup.com/en-en/about-kamstrup/cookie-information>.

### Internet connection

To use the Water Intelligence platform, it is required to have an internet connection. As with any other web-based application, it is a must that we can get in contact with the data that we need to make the analysis reports as coherent as possible. 1 Mbps is recommended for using the Water Intelligence platform.

### Security

Kamstrup is ISAE3000 and ISO27001:2022 certified and works in alignment to relevant aspects of CIS18 and the IEC62443 set of standards.

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