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# Your Water Intelligence system has been updated with new features!



## **Dear customer**

Our ambition is to continuously develop Leak Detector to bring more value to you. We are pleased to yet again present several new features and possibilities, all with the aim of making your gains from Leak Detector higher. In the following pages, you can get a quick overview of the new features in Leak Detector 1.3, 1.3.1 and 1.4.

**For new changes related to Leak Detector 1.3 see pages 2 and 3.**

**For new changes related to Leak Detector 1.3.1 see page 4.**

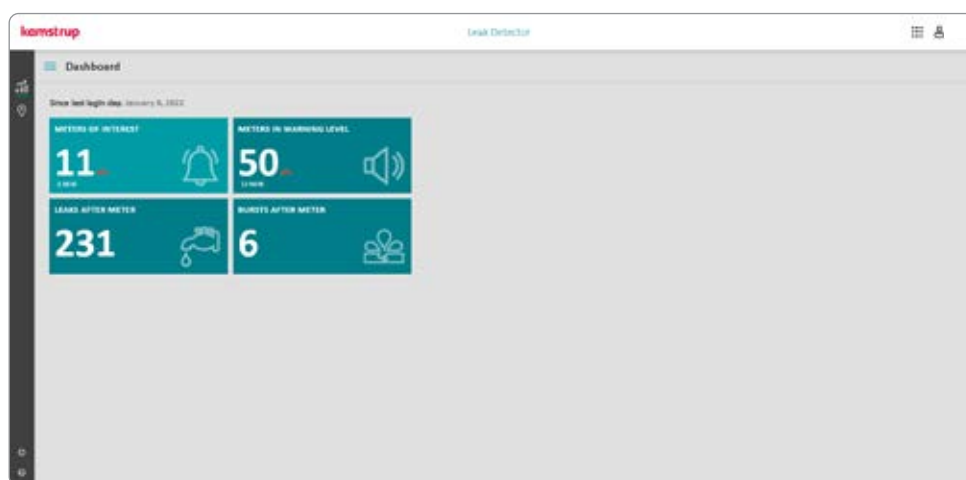
**For new changes related to Leak Detector 1.4 see pages 5 and 6.**

**Version: 1.3**

## Dashboard

The Leak Detector dashboard generates a quick consolidated overview of relevant water loss KPIs in your water distribution network. The dashboard currently focuses on four topics:

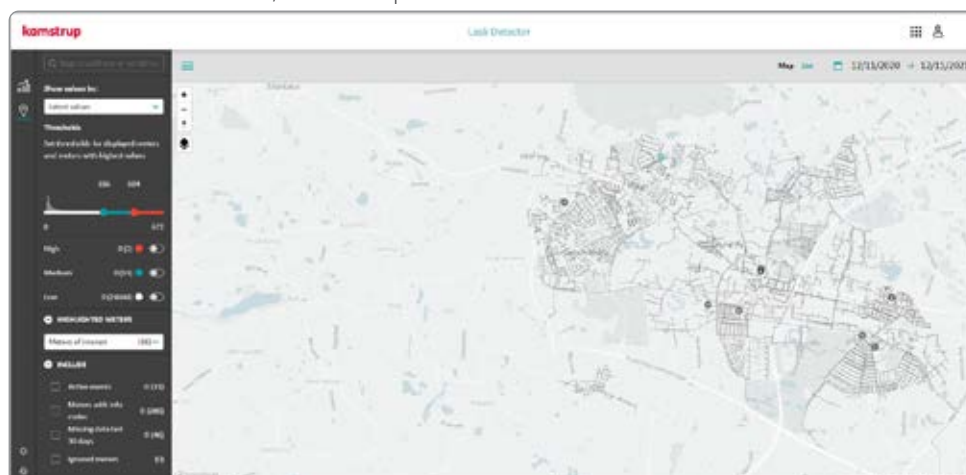
- **Meters of interest:** Shows a system recommendation on meters where there is a high likelihood of a leak (see below for more information).
- **Meters in warning level:** Shows the meters with a noise level above a threshold set by you.
- **Leaks after meter:** Shows the number of meters with active “Leak” alarms (info codes).
- **Bursts after meter:** Shows the number of meters with active “Burst” alarms (info codes).



## Meters of interest

Meters of interest is a noise pattern algorithm to highlight potential meters with leaks, where you can save time NOT having to look at noise curves, but leave monitoring and prioritization to Leak Detector and focus your efforts on verifying the potential leakages identified.

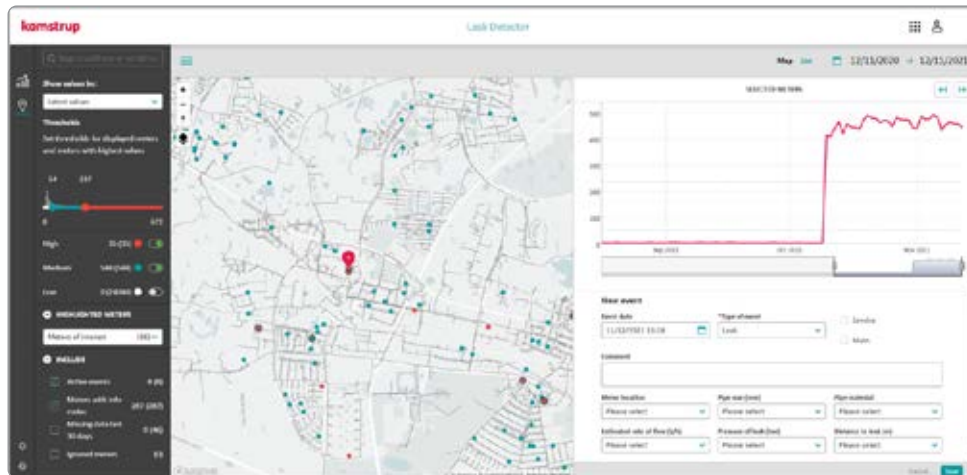
Kamstrup will continuously update the algorithm behind “Meters of interest” to increase your hit rate on real leaks. You will find the meters of interest via the dashboard, via the map filter section or via the list view.



Our data scientists will use anonymized data (type of event and noise) from Leak Detector to continuously improve the algorithm behind “Meters of interest”. Please help us by using the event form.

## Event form updated

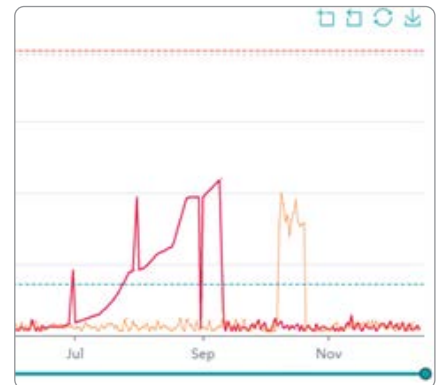
The event form has been updated, so that it now pays more attention to detail. To ease the entry of relevant data, many fields have been equipped with drop-down menus for a quicker completion of the fields in the form. In other words, you will get a better overview of where you have made investigations and of conclusions of what was found.



## Acoustic graph updated

At Kamstrup, we continuously strive to improve the speed and response time of Leak Detector and therefore, the look and feel of the acoustic noise graph have been updated.

In the new graph, zooming in on interesting noise developments is done via buttons above the graph, via a slider below the graph or via the scroll wheel on the graph.



**Version: 1.3.1**

## Improved search functionality

Do you have different filters active in Leak Detector, but you want to search for a meter outside of these filters without disabling your current filtration settings?

In Leak Detector 1.3.1., when searching for a specific address, Leak Detector will now search through all of your meters, and not just the ones that fit your filtering criteria. This has been done to ensure that you get the best overview of your distribution network as possible, of course without negatively impacting the performance of Leak Detector. If you like the list view more than the map view, then fear not, this functionality also applies to the list view.

## Improved zoom functionality

When searching for a specific address in your distribution network, Leak Detector will now automatically take you to the meter placed at this specific address by zooming in on it and presenting its corresponding noise graph without you doing anything.



## What about performance?

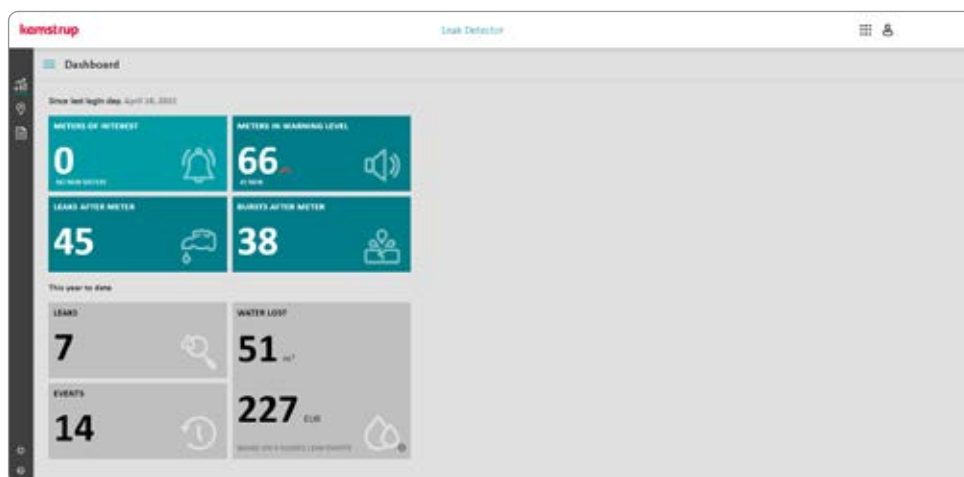
There has been observed no negative performance impacts of this update, rather you should see improvements in your daily workflow. Additionally, no user interface updates have been introduced, so Leak Detector looks and feels just like what you are used to.

Version: 1.4

## Dashboard extensions

The Leak Detector dashboard, introduced with the previous release Leak Detector 1.3, generates a quick consolidated overview of relevant KPIs in your water distribution network. The dashboard has been further updated with three topics:

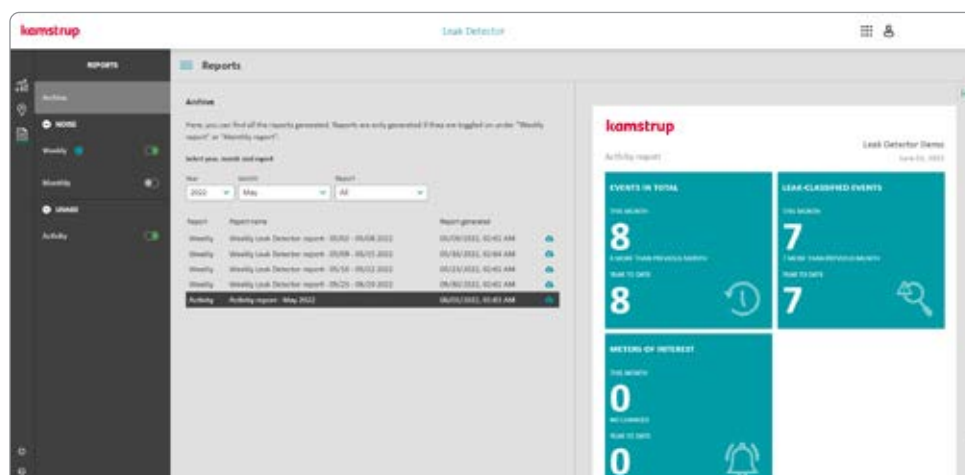
- **Leaks:** Shows the number of events registered as a "Leak" via Leak Detector's event form year to date.
- **Events:** Shows the total number of events (incl. leak + other acoustic noise events) registered via Leak Detector's event form year to date.
- **Water loss:** Shows the estimated amount of water lost (measured in m<sup>3</sup> in Europe and gal. in US) with an associated cost, based on a start date and an end date of the event, and the estimated leak size registered via Leak Detector's event form, both figures will be displayed as year to date. In settings, water production cost can be entered to fit your specific needs.



## Activity report

Almost since its inception, Leak Detector has had a report module hidden within the settings menu. With Leak Detector 1.4 the report module has been relocated to the main menu bar to the left in Leak Detector. Additionally, a new activity report has been added.

This activity report includes the total number of registered events, the number of events classified as leaks, and the number of meters of interest. The numbers are split into both a total for the month the report is generated in, and a total for the year to date.



## Minor improvements

We are continuously trying to make Leak Detector better both in terms of functionality, but also in terms of performance. We are continuously working on improving the meters of interest algorithm introduced with Leak Detector 1.3, in an attempt to increase our leak suggestion hit rate. Furthermore, we have introduced a way to monitor Leak Detector's performance so that we know if e.g. the response time becomes exceptionally high.

## Security at heart

At Kamstrup, we strive to protect your data and ensure that you can focus on what is important, rather than worrying about protecting your data. With the updated version of Water Intelligence, we have further secured your application and data.

## Your system has been updated!

Please contact Kamstrup Support at tel. +45 89 93 11 10 if your application has not yet been updated. Our support team can help you with the update and with getting started using the new features.

Kamstrup wishes you pleasure with Leak Detector release 1.4.

Best regards

Kamstrup A/S