

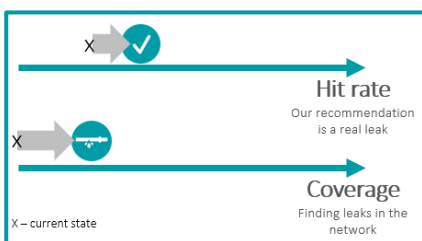
Leak Detector 1.5: Meters of Interest updated with advanced machine learning

Dear Customer,

Our goal at Kamstrup is to help you reduce water loss in your water distribution network, which we do through our flowIQ® meters and Leak Detector software. Leak Detector aims to enable you to reduce your water loss and to help you save time, and it provides an effective method to monitor and identify leaks in your network. With Leak Detector, we have the ambition to increase coverage to locate all leaks in your network, increase our hit rate in our leak recommendations, and prioritize our recommendations to you based on which leaks have the highest water loss.

To reach the above ambition, the software function called “Meters of Interest” is now generated from a new and improved machine learning method in which noise curve values, levels, patterns, changes, and many other factors are analysed to categorise whether it is a leak.

In this release of the machine learning method, we have improved our hit rate to ensure our recommendation of leaks is more accurate. We have achieved this by adding more validation to the noise curve data set to identify more characteristics of leaks. All in all, the Leak Detector 1.5 release gives you a higher hit rate and better coverage of leaks in your network when you use Meters of Interest.



What you can expect from the release

Going forward, we will keep improving and communicating our efforts about hit rates and coverage. We will conduct real tests in real water distribution networks in collaboration with some of you to publish the X% on hit rate and the Y% on coverage from a real network as an example of the benefits of using Leak Detector.

Help us improve the Meters of Interest Machine Learning – to find more leaks.

For the machine learning method to improve, we kindly ask you to help us by using the event formula in Leak Detector. The machine learning method utilises all meters’ noise curves with the event classification you have created to improve our recommendation – right now, Leak Detector holds more than 550,000 meters to train the machine learning method. To you as a customer, this update means that the number of identified Meters of Interest may change compared to what the previous version of the Meters of Interest suggested.

Better support for all infrastructure

Our machine learning method works with any infrastructure component you have installed. With a fixed network, our recommendation will be more accurate/precise to find leaks in your network.

In a drive-by setup, our recommendation will generate a potential leak list; however, it will not be as accurate/precise as it is in a fixed network because a drive-by setup has fewer data points. If you experience challenges with non-revenue water, we advise driving through the affected area more often to collect more data – i.e., once a month or potential 5 days in one working week in one selected month which will improve your accuracy/precision.

Note! You will find the Meters of Interest in the first tile on the dashboard or with the map filter under highlighted meters.

Your system has been updated.

The Meters of Interest algorithm has been automatically updated, meaning you do not need to do anything.

If you experience any problems, please get in touch with Kamstrup Support at:

For US customers: 404-835-6716

For global customers: +45 89 93 11 10

Otherwise, you can find all our Leak Detector documentation on our website:

- For US customers: <https://www.kamstrup.com/en-us/water-solutions/water-analytics/leak-detector/documents>
- For global customers: <https://www.kamstrup.com/en-en/water-solutions/water-analytics/leak-detector/documents>

Happy leak hunting!

Best regards
Kamstrup A/S