Water Quality

The Aquis Water Quality module gives you full overview of the chemical composition in every part of the water network in order to preserve the right water quality. You can follow and track the water throughout the network and be informed about the composition in every node.

Quality Alarming /
Tracking using Live Data

The Aquis water quality simulation engine allows speedy, accurate evaluation of the most complex water networks

Aquis uses live data from an online water analysis as basis for predicting and analyzing the spread and origin of the pollutant. This reduces the costly effects of a pollutant spreading in the water distribution network.

New technology within online water quality analysis is evolving rapidly. We also see an ever increasing focus on providing drinking water of higher quality as well as on the ability to avoid the extremely costly effects of pollution. These effects can be the cost for analysis, cleaning, consultancy and provision of alternative water sources, but also have direct impact on the consumers. As an example the need for hospitalization can be reduced by rapid reaction and information.

In general, this new functionality allows the water utility to react quickly and correct based on real-time information – and to provide the consumers and other stakeholders with qualified information.

Using online quality analyses

The online data is transmitted from the online analyzer to Aquis via the SCADA system. An analyzer dashboard shows the status of each instrument, as can be seen with the colors shown in the overleaf display. By clicking on the specific analyzer you can see the e-coli level, or any other parameter being measured, as well as the historical data in comparison to the threshold value.

Prediction of spread of a pollution

Once an analyzer exceeds an alarm you are able to track the spreading of the water from that point and further into the distribution network. This allows you to quickly see who will be affected. Aquis can take into account that the analysis has a certain delay time, and include this when calculating the spreading of the pollutant. By drawing a line around the infected area, Aquis advises which consumers are affected. It even allows the operator to submit text messages to the affected consumers, advising them to boil the water, hence perhaps avoiding people drinking polluted water.

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Limiting the spread of a pollution

Aquis also has the facility of advising which valves have to be closed to section of a specific area or zone, enabling the operator to react quickly in his pursuit of reducing the spread of the contaminant in the network.

Identification of the source of the pollution

Aquis can analyze where the water at the measuring point comes from.

This can be from a number of sources or just one. In combination with the other analyzers the most likely source of contamination is identified by extrapolating the data. As the model is always reflecting the real life situation, this can save a lot of money and precious time in critical situations.

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