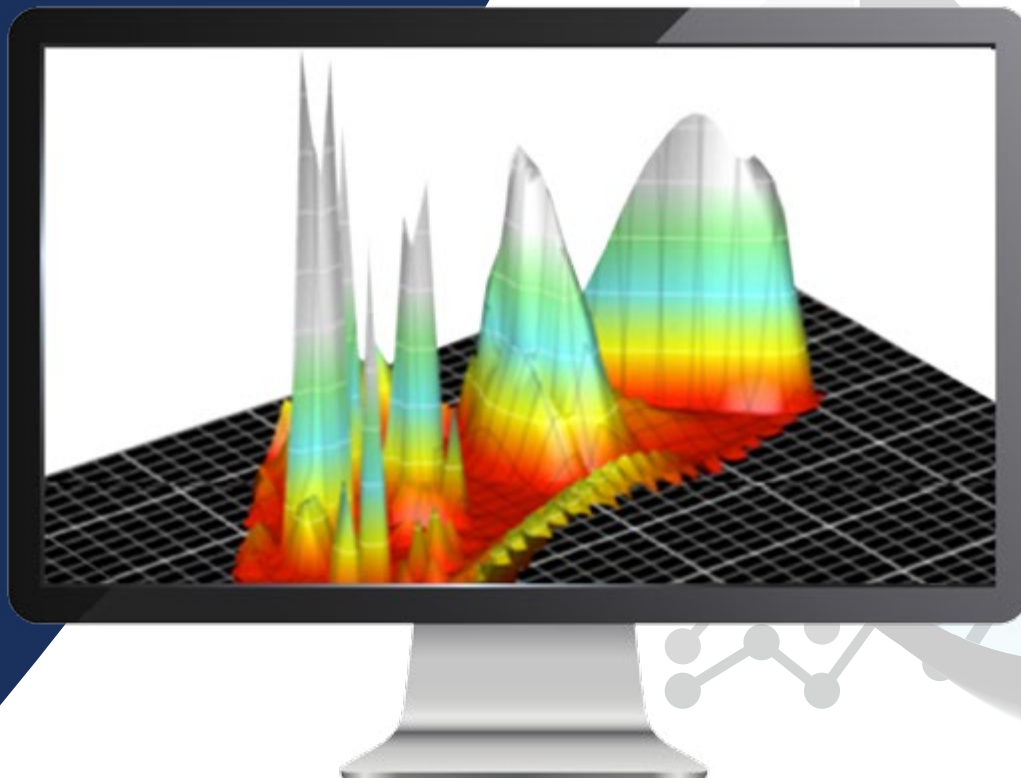


SMART. INSIGHT.

Advanced
data-analytics and
event detection
system





SMART INSIGHT



SMART INSIGHT is a data analytics solution that helps water utility managers, engineers and operators make better decisions faster - enhancing public safety, reducing costs and improving service.

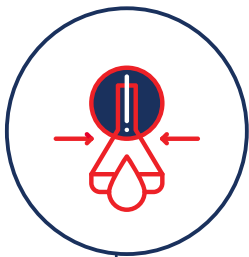
SMART INSIGHT analyzes data from water quality instrumentation in the field to provide INSIGHT and alerts about significant water quality changes and potential pollution, as well as operational INSIGHT such as instrumentation and communication system functionality and ongoing calibration requirements.

SMART INSIGHT overcomes the challenge of interpreting the large volume of water quality data that is collected in the field. It also validates the performance of the analyzers in the field, including the quality of the information being generated.

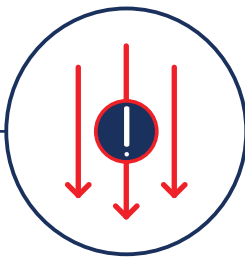
Main Functions

What We Do & How We Do It

SMART INSIGHT includes more than 20 algorithms we call Detectors - some of which are well-known while others are proprietary to SMART INSIGHT and patent protected. The Detectors analyze the water quality data to identify specific deviations in behavior [abnormalities] that would typically be missed by simply "watching the data" or by using conventional SCADA tools.



Early detection of water quality events



Reduce false alarm rates



Validate field data

- ▼ Learn statistical limits
- ▼ Detect abnormal rate of change
- ▼ Identify long trend
- ▼ Detect data with low quality (fixed value, fixed noise)
- ▼ Detect problems in I/O cards
- ▼ Report on rare dynamic changes
- ▼ Identify rare combinations
- ▼ Similarity to hazard known combination
- ▼ Detect violation of rules
- ▼ Correlation between network stations



Maintain Water and Public Safety



Provide Excellent Service



Increase Manpower Efficiency



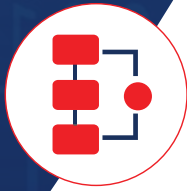
Reduce Site Visits, Time and Money

SMART INSIGHT



Setting up a New Model

SMART INSIGHT can be set up quickly to analyze any continuous water quality data that was generated by chlorine, turbidity, pH, conductivity, temperature, ORP, ammonium, nitrates, chloramines, TOC, or spectrometer sensors. It can also be configured to analyze operational parameters. A default set-up and self-learning capabilities make it simple and quick to generate a new model.



Training the Model and Demo Options

SMART INSIGHT can be trained using historical data from SCADA systems or other data sources. Every CSV file that contains water quality data can be easily uploaded to train a new working model, dramatically shortening the learning period for the designated water system.



Software as a Service

SMART INSIGHT is a cloud-based system. No hardware installation is needed on the user side. Assuming that the customer has a history of data per site, it should take only a few hours to build and train a model and begin gaining new INSIGHT.

1

We are the engineer

We build, maintain and calibrate the models on an ongoing basis. You receive reports and alerts and provide field feedback for ongoing model calibration.

There are
two main ways
to work
together

2

You are the engineer

We train you to operate the software and to build, maintain and calibrate the models independently. You create the reports and get automatic alerts from the system.

Either way, we provide full support to help you get the most valuable INSIGHT from your data.