

PRODUCT DATASHEET

# ToxAlarm™

## ONLINE TOXICITY ANALYZER

Online Toximeter that continually monitors drinking and surface water for pollutants.



### High Sensitivity

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### Fast and Precise

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### Reliable

- Tests using a permanently self regenerating culture of highly sensitive biomass
- Highly sensitive to a variety of pollutants
- Designed for drinking and surface water applications

# ToxAlarm – Online Toximeter for Drinking Water & Surface Water Monitoring

Our toxicity analyzer, ToxAlarm™, continually monitors drinking and surface water for pollutants. Whether by accident, negligence or with intention – it only takes a small amount of a harmful substance to pollute a large amount of water such as rivers, lakes, dams, as well as drinking water reservoirs. Therefore, it should be continually monitored.

Potential toxins in water are determined through the reaction of highly sensitive bacteria. The measurements follow at intervals of less than 5 minutes. Thus allowing enough time to introduce countermeasures after the occurrence of pollution.

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## Applications

ToxAlarm is used as an early warning system that continually monitors water for toxic pollutants. Suitable for environmental protection across many water types.

- Surface water
  - Drinking water
  - Ground water
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## Benefits

Capable of rapid toxicity monitoring, which is important for the protection of biological wastewater treatment processes without the need for the use of test organisms.

- Low cost of ownership
  - No purchase of test organisms necessary
  - Early warning system
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## Features

As every water sample is tested with a fresh amount of bacteria, any toxic event can be monitored from start to finish, without interference to the test organisms through the appearance of a toxicity.

- Continuous monitoring of toxicity
  - Measurement range: 0 – 100% toxicity
  - Fast response time: as little as 5 – 10 minutes (depending on application)
  - Self-regenerating culture of nitrifying bacteria
  - High sensitivity
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## Our Global Water Analysis Solutions Deliver

- Improved reliability
- Low cost of ownership
- Meet compliance requirements
- Backed by global service and support

Process Insights is committed to solving our customers' most complex analytical and process challenges.

# Technical Data

## ToxAlarm

### Measurement Technique and Sample Preparation

Measurement Method	Determination of toxicity through the measurement of oxygen conversion
Measurement Compliance	According to DIN EN ISO 9509:2006
Measurement Ranges	0-100 % Toxicity
Sensitivity	0% Toxicity
Oxidation Principle	Determination of inhibition of respiration with nitrifying bacteria
Accuracy	10-15% Toxicity
Repeatability	10-15% Toxicity
Cycle Time	12-15 Min
Response Time	5 Min (application dependent)
Bacteria Culture	Nitrifiers
Particle Size	Soft particles max. 2mm

### Temperature and Humidity

Permissible Sample Temperature	5 - 25 °C / 41°F - 77°F
Ambient Temperature recommended	10 - 25 °C / 50°F - 77°F
Ambient Air Humidity	Max. 80% (non condensing)

### Dimensions and Weight

Housings	Steel, coated with powder paint, IP54 (further on request)
Dimensions	W 630 x H 1265 x D 580 mm W 49.8" x H 24.8" x D 22.8"
Weight	70 kg / 154.3 lbs approx.

### Electric and Hydraulic Specifications

Inflow and Outflow	Tube 6 mm ID and 8 mm ID
Power Supply	230 /115 V~, 50 / 60 Hz, 100 VA
Analogue Output	0/4 - 20 mA
Serial Interface	RS 232, combined alarms, Life-Zero, USB
Safety	10 A internal, 16 A external
Options	Remote control via TCP/IP protocol, Sample taking system FlowSampler, Air Treatment

### Equipment Devices and Data Output

High resolution and back-lit TFT touch screen graphic display, 10.4"
Self explanatory software and service checklist; Autostart funktion
Standard data interfaces, e. g. office PC

## GAIN REAL-TIME INSIGHT INTO YOUR PROCESS

Process Insights manufactures and delivers premium sensors, monitors, detectors, analyzers, instrumentation, and software that are mission-critical to keep your operations, personnel, and the environment safe – every day across the globe.

Get the most reliable, precision analytical technologies available on the market today. We will work to match your needs and budget, and provide the optimal, and most stable process analysis solution for your application.

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## CENTERS OF EXCELLENCE | PROVIDING PROVEN SOLUTIONS

Process Insights is committed to solving our customers' most complex analytical, process, and measurement challenges everyday.

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For a complete range of products, applications, systems, and service options, please contact us at: [info@process-insights.com](mailto:info@process-insights.com)

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REVOLUTIONIZING MEASUREMENT

**EVERYWHERE**