

**PRODUCT DATASHEET**

# ToxAlarm

## ONLINE TOXICITY ANALYZER

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



**Highly Sensitive**

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**Fast And Precise**

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**Self-Regenerating  
Bacteria**

## Applications

- Surface water monitoring
- Drinking water protection
- Ground water protection

# ToxAlarm - Online Toximeter for Drinking Water and Surface Water Monitoring

LAR's 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*

LAR's toximeter ToxAlarm is used as an early-warning system that continually monitors water for toxic pollutants. The toxicity analyzer is suitable for environmental protection for a variety of types of water.

- Surface water
- Drinking water
- Ground water

## *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
- Self-regenerating bacteria within the analyzer
- Response time in 5 minutes

## *Benefits*

LAR's ToxAlarm is capable of rapid toxicity monitoring, which is important for the protection of biological wastewater treatment processes. And that, without the purchase or cultivation of test organisms.

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



## Technical Data

### 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

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