



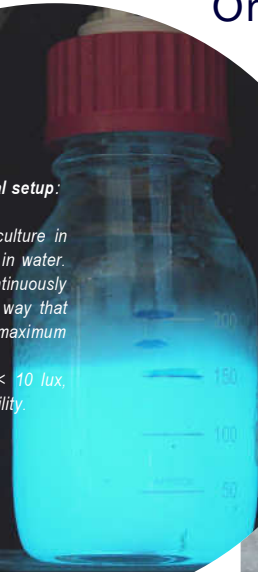
New Product Highlight

On-line, low-level, broadband toxicity detection

## VibrioTox®

Image of an experimental setup:

*Vibrio Fischeri* bacteria culture in buffer vessel, suspended in water. Air and nutrients are continuously and carefully dosed in a way that the living culture obtains maximum luminescence. Raw image captured at < 10 lux, enhanced for human visibility.



Monitoring of toxic compounds in water has become a widely accepted method, but was until now not available in an industrial analyzer format. Based on its experience in process waters and environmental monitoring, AppliTek has designed the **VibrioTox®** on-line Early Warning System as a robust analytical bioassay suitable for chemical analysis and monitoring of waste water and industrial process liquids.

The **VibrioTox®** provides the following features:

- Real-time, continuous monitoring
- No manual intervention except for monthly maintenance (est. 2 hours / month)
- Reagents can be stored at room temperature
- Automatic diagnosis of system faults
- Remote control, data analysis and troubleshooting
- Detects thousands of chemical compounds



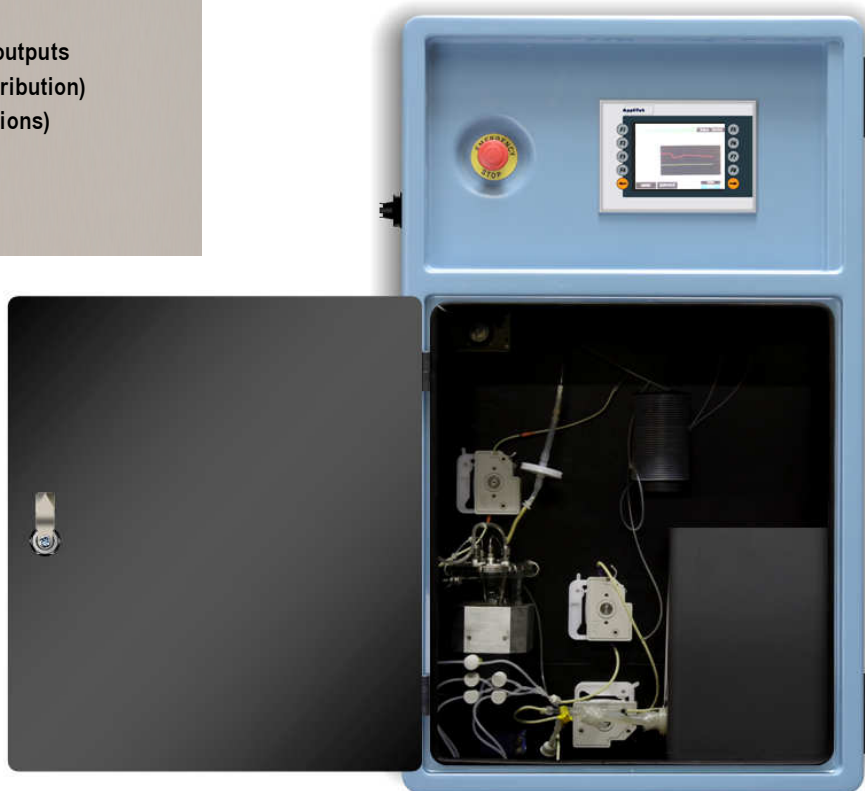
AppliTek

## Applications

Downstream as a possible threat to drinking water outputs  
 Homeland security applications (drinking water distribution)  
 Utility sector (drinking water & waste water applications)  
 Protection drinking water of emergency services  
 Monitoring influent of wastewater treatment plant

## Description

- On-line Broadband Toxicity analyzer
- Early Warning System with maximum sensitivity of detection
- Patented technology —compliant with ISO11348 (Microtox® method based on *Vibrio Fischeri*)
- Smooth action cleaning, drain and sample pumps
- 5 ¾" color touch screen with function buttons for immediate access to submenus (settings, status, light measurements)
- Data logging of 1000 last recorded results



## Parameters / Detectable Compounds

Any chemical compound both organic (herbicides, pesticides, toxins, solvents etc.) and inorganic, metals and metal compounds that are contributing to toxicity. A comprehensive database is available upon request at our Application department.

TECHNICAL – ANALYTICAL DATA		
	Memory	Compact flash memory (128 MB)
	Data logging	Log files with 1000 values/result are stored
<b>Built-in PC</b>	Screen	TFT Color touch screen, IP65
	USB Serial port	for memory stick access
	Network interface	To communicate with other remote PC in a LAN
	Data retention after power failure	Parameters, factory settings, data logs, clock, initialization program
<b>Communication</b>		Ethernet (standard)
<b>Alarms</b>		Malfunctioning Alarm (potential free contact) Result Alarm (potential free contact)
<b>Status signals</b>		Calibration Contact (potential free contact) Maintenance Contact (potential free contact) Remote/Local Contact (potential free contact) Analysis ready (potential free contact)
<b>Analog outputs</b>	Analysis results	(500 Ohm max. load) active 4-20 mA (galvanic separated) (up to 8 Analog output sources available)
<b>Ambient conditions</b>	Relative Humidity	5 – 95% (non condensing)
	Temperature	N.A. (general purpose, clean, indoor)
<b>Enclosure</b>		Protection class IP55 (per DIN40050)
<b>Dimensions (W x D x H)</b>		600 mm (23 ½") x 465 mm (18 1/3") x 1000 mm (39 ¼")
<b>Footprint (W x D)</b>	Without tubing	Minimum 1000 mm (39 ¼ ") x 850 mm (33 ½ ")
<b>Shipping weight</b>		65 kg (144 lbs)