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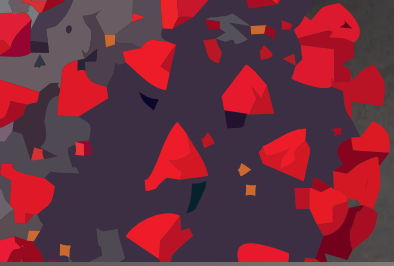
SENTINEL PATHOGEN DETECTION SYSTEM



WYDREX



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The Sentinel is a pathogen detection system for wastewater treatment plants and industrial wastewater monitoring applications designed to detect and monitor the presence and magnitude of pathogen levels, including the SARS-CoV-2 virus, which causes COVID-19.

An on-site pathogen monitoring system, that detects the pathogen right away, the data gathered from this system shall give an early warning to the public health and government agencies that a possible local outbreak is about to ensue and understand the scale of the outbreak at an early stage to minimize the impact, rendering the current conventional methods ineffective due to the time consuming testing procedure that takes days.

Localised testing at high infection risk areas such as schools, nursing homes, food packing plants. The Sentinel ensures that children are protected at schools, the elderly are protected at their care facilities, and employees can work in safe environments.

The Sentinel System uses patented technology with onboard quality control and is designed to work with Wydrex cartridges and matrix spike monitoring to assure accuracy, repeatability, and scalability. The Sentinel System will not only validate the presence of the virus, but also measure the quantity of the genetic material so that the scale of the outbreak can be determined.

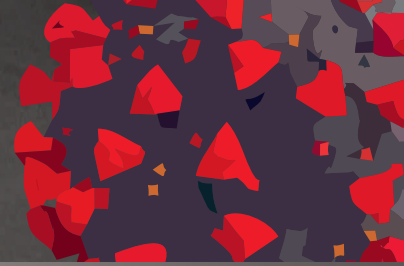
The Sentinel system uses patented quantitative PCR technology and melting curve analysis to accurately determine the virus population in the sample.



IN-SITU Testing

The Sentinel System will include a supply of sample cartridges for each site, along with the instructions.

- ≈ Take sewage sample.
- ≈ Pretreat sample according to procedure defined by Wydrex.
- ≈ Add pretreated sample to assay supplied by Wydrex.
- ≈ Put solution into test vial.
- ≈ The system will automatically perform the test.
- ≈ The data will then be available for the local public health agency.
- ≈ Discard the test sample.



Wydrex Cloud

The monitoring network is connected on the Wydrex cloud, this gives public health agencies and local governments clear visibility of how and where the outbreaks will spread. This is paramount to protecting the public.

- ≈ Interface to agencies to upload information automatically
- ≈ Current and historical test data can be downloaded for trend analysis
- ≈ Data can be downloaded using a mobile phone app or a desktop/laptop computer
- ≈ Provides a remote programming interface for setting up new test procedures
- ≈ Implement firmware updates
- ≈ Diagnosis and maintenance functions

FEATURES/BENEFITS

SENTINEL COMPARISON

	SENTINEL	CONVENTIONAL
Testing	In-Situ	Off Site
Test Time	Test result in one hour	Test results 2-3 days
SARS-Cov-2 Testing	Yes	Yes
Multiple Pathogens	Yes	Yes
Cost per Test* per Pathogen	\$300	\$1,200
Data Tracking	Automatic Download	Manual Data Entry
Safety of Plant Personnel	High	Low

As Sentinel is in-situ, plant personnel know immediately of the presence of a potential pathogen

* Included free in AXpress platform, if selected as part of package.

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