

# RAPID Reader

Automated, On-Site, On-Time  
Detection of Airborne Pathogens

Continuous Monitoring. Rapid Detection.  
Online Monitoring and Alerts.



# RAPID Reader – Rapid Microbial Detection System

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Introducing PathogenALERT's RAPID Reader - a patented rapid microbial detection sensor that facilitates remote monitoring of airborne pathogens (bacteria, yeasts & molds) and revolutionizes the approach to pathogen detection and control.



## Benefits

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The RAPID Reader significantly shortens contamination detection times and automates the sampling, monitoring and detection process. The sensor is connected to the cloud-based monitoring and alert system so you receive alerts whenever contamination is detected.



No incubation or  
analysis period



Less intervention



Continuous  
monitoring



Traditional presentation  
of results



Detection specificity



Cloud-based  
monitoring

## Faster

- Faster detection of contamination events helping prevent future instances
- Fully automated - no separate incubation or analysis period
- No preparation time for samples

## Continuous & Remote Monitoring

- Isolation of contamination sources with multiple monitored points
- Continuous air sampling
- Cloud-based software including daily reports detailing current risk level
- Presentation of detection reports using similar format to traditional techniques

## How it Works

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The RAPID Reader has been engineered to periodically draw a sample of ambient air into the accompanying cartridge, where spores and microbes present in the air have time to settle on the nutrient-rich detection site. Optical density measurements on growth facilitation media determine if microbial contamination is present.



## Cartridge System

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The RAPID Reader cartridges are designed to enable operatives to quickly and easily change without risk of cross contamination. Cartridges are tailored to detect specific pathogens.



# Low Cost Contamination Detection

Implementing the RAPID Reader can not only have significant impacts on the effective management of airborne pathogens, it can also result in lowering the overall cost of airborne contamination detection and remedial action.

The RAPID Reader is designed to be fully automated requiring no specialist training to operate. One operative can manage a large number of installed units with human intervention required only when a contamination event has been detected and a cartridge needs to be changed.

The RAPID Reader also eliminates the need for external laboratory analysis which can be expensive as the cloud-based software performs automated analysis and reporting when a contamination event is detected.

- Less intervention – only requires intervention to change cartridges
- Low cost solution resulting in the reduction of overall contamination risks and expenses.
- Low cost wireless installation

## Technical Specifications

Inputs	100 - 240V International Adapter	DC 9V +/- 10%, 1A (Supplied)
Wireless Outputs	ZibBee 2.4 GHz	(Gateway) Supplied
Temperature Range	Operating Temperature (° F)	60 - 86
	Storage Temperature (° F)	35 - 46
Humidity Range	% RH continuous	40 - 100
Enclosure	IP rating for indoor installation	IP 10
Air Flow	Volume of air sampled/hr	0.6 m <sup>3</sup>

Cartridge Specifications	Pathogen Type	Tested
<i>Aspergillus</i>	Mold	Yes
<i>E-Coli</i>	Gram negative bacteria	Yes
<i>Cronobacter Sakazaki</i>	Gram negative bacteria	Yes
<i>Listeria</i>	Gram positive bacteria	Yes
<i>Legionella</i>	Gram negative bacteria	Yes
<i>Staphylococcus Aureus</i>	Gram positive bacteria	Yes
<i>Mycobacterium Tuberculosis</i>		Ongoing



## PathogenALERT

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