



# Automated, On-Site, On-Time Detection of Airborne Legionella

Continuous Monitoring. Rapid Legionella Detection.  
Online Monitoring and Alerts. It's the L.A.W.



# RAPID Reader – Rapid Microbial Detection System

Introducing PathogenALERT's Legionella Advanced Warning system, it's the L.A.W., a patented detection sensor that facilitates remote monitoring of airborne Legionella and revolutionizes the approach to Legionella detection and control.



## Benefits

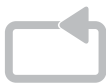
The PathogenALERT L.A.W. system automates the sampling, monitoring and detection process of Legionella up to 1000 times a week. The cloud-based monitoring and alert system receives an alert whenever a contamination is detected, enabling corrective actions in hours, not weeks, to stop loss and and mitigate risks.



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 of cooling towers, water features, pools/spas, outside air intake vents
- 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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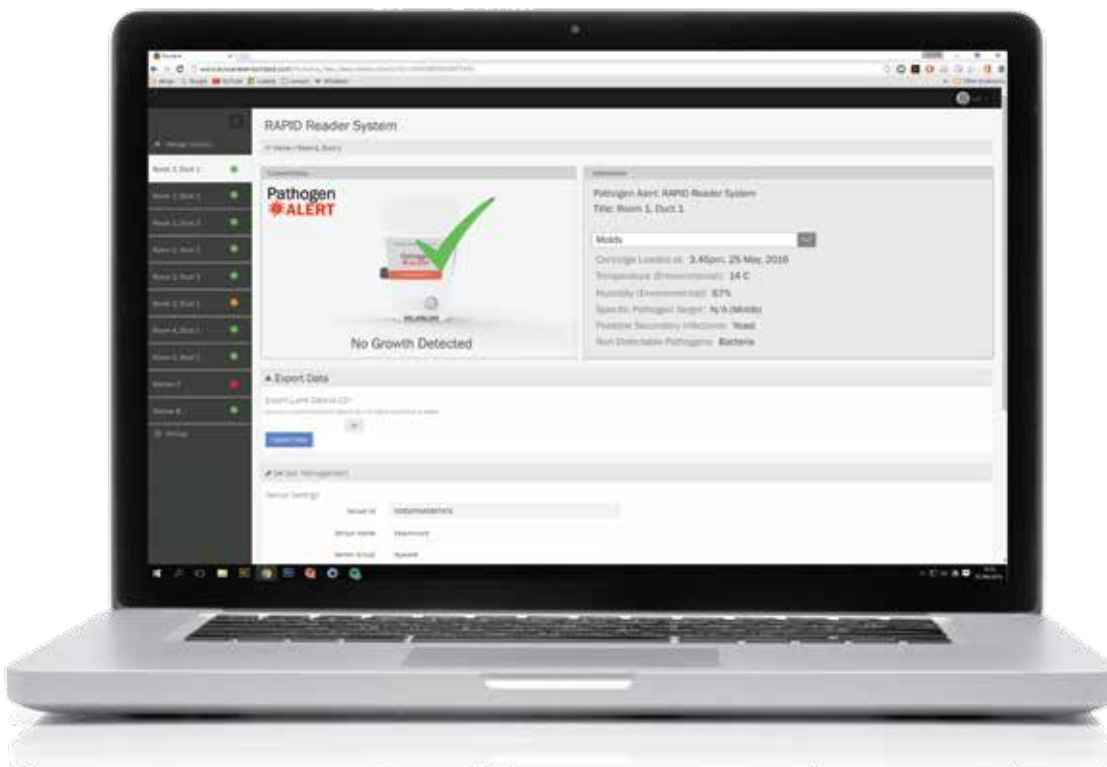
The L.A.W. system periodically draws a sample of ambient air into the accompanying cartridge, where Legionella bacterium settle on the nutrient rich detection site. Optical density measurements determine if microbial contamination is present. The L.A.W. cartridges are quickly and easily changed without risk of cross contamination. Cartridges are tailored to detect Legionella specifically.

## Dashboard and Cloud-Based Monitoring

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Monitor connected sensors online and in real time using a PathogenALERT Sensor Data online account. Set up is quick and easy – connect the data hub to an Ethernet point and your sensor will wirelessly send data online. Data is analysed online or downloaded for more detailed analysis as well as linked with existing IT/BMS systems.

- Easy to use (Customer self-management and customization)
- Online monitoring in real time -24/7
- Plug & Play set up
- No cumbersome chain-of-control documentation
- No need for additional monitoring software systems
- E-mail alerts whenever pathogens are detected
- Export report function for reporting purposes (Traditional PDF reports)



# Low Cost Contamination Detection

Implementing the L.A.W. system can significantly impact the effective management of Legionella, lowering the overall cost of contamination detection and remedial action.

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

The L.A.W. System eliminates the need for expensive external laboratory analysis 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

<b>Inputs</b>	100 - 240V International Adapter	310mA @ 24V DC (Supplied)
<b>Wireless Outputs</b>	ZigBee 2.4 GHz	(Gateway) Supplied
<b>Temperature Range</b>	Operating Temperature (°F)	50 – 99
	Storage Temperature (°F)	32 – 140
<b>Humidity Range</b>	% RH continuous	1- 100
<b>Enclosure</b>	IP rating for indoor installation	IP 10
<b>Air Flow</b>	Volume of air sampled/hr	0.6 m <sup>3</sup>



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