

## Air Quality Control and Data Management



Optimize protection with OnGuard, the air quality control and data management system designed by BreatheSafe. This next generation controller represents a significant innovation offering exceptional insight and safety and is designed to control air quality within any breathing zone.

OnGuard's advanced monitoring capabilities provide real-time air quality measurements and alerts. It actively notifies operators and site staff of any compromising air quality conditions that may affect their health, safety or equipment. For a complete air quality control and data management system, combine OnGuard with BreatheSafe's HEPA filtration solution.

2024-09-25 12:30:43 ✓	
Pressure:	+50 Pa
Motor:	21%
CO <sub>2</sub> :	854 ppm
PM <sub>10</sub> :	2.1 µg/m <sup>3</sup>
TWA PM <sub>10</sub> :	1.5 µg/m <sup>3</sup>

### Default Screen

The OnGuard home screen displays sensor telemetry and control parameters.

2024-07-16 07:21:45 ⚠	
Pressure:	+316 Pa
Motor:	100%
CO <sub>2</sub> :	1012 ppm
PM <sub>10</sub> :	1.0 µg/m <sup>3</sup>
TWA PM <sub>10</sub> :	0.6 µg/m <sup>3</sup>

### Max Pressure Test Function

Maximum pressure result achieved when the motor is running at 100% speed.

2024-07-11 8:15:56 ✖	
Pressure:	-1 Pa
Motor:	30%
CO <sub>2</sub> :	808 ppm
PM <sub>10</sub> :	0.8 µg/m <sup>3</sup>
TWA PM <sub>10</sub> :	0.8 µg/m <sup>3</sup>

### Traffic Light System

Visualises system status with clear indicators: normal, warning, and alert.

# Key Features of the OnGuard™

## Real-Time Air Quality Data

Displays complete air quality and system performance parameters, including pressure, particulate matter monitoring, CO<sub>2</sub> concentration, temperature, humidity, and more.

## Date and Time

Displays and logs the current date and time in your timezone for accurate data management.



## Integrated Sensors

Sensor integration into User-Interface that delivers accurate air quality data from within the breathing zone, including CO<sub>2</sub>, temperature, humidity, particulate mass and count in real time.

## Main Unit

Manages data storage, processing and communications.



## Alert Notification

Shows current alert details and possible solutions to the operator.

## Faster System Response Rate

Optimises control to intelligently adjust the pressuriser motor speed.

## Pressure Control

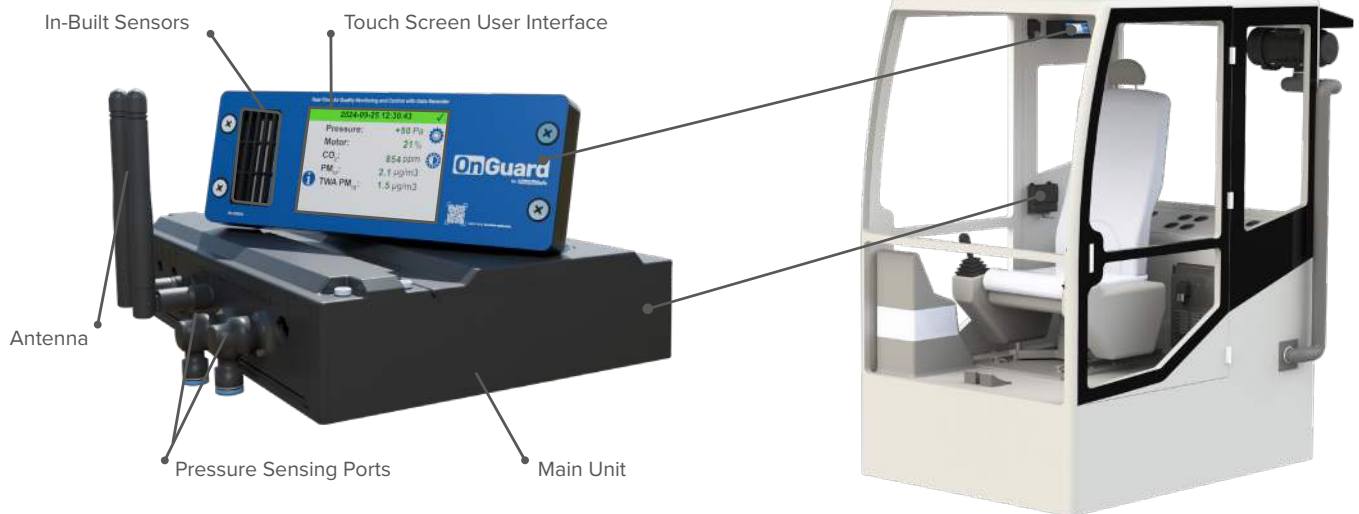
Automatically adjusts the pressuriser fan speed to maintain the target pressure and increase the filter lifecycle.

## High CO<sub>2</sub> and Particulate Concentration Flush

Detects elevated CO<sub>2</sub> and particulate levels. Intelligently increasing the fresh air supply to reduce CO<sub>2</sub> and flush excess particulate.

## Data Communication

Provides local and networked, wireless and wired data access capability.



## Data Management

Gain comprehensive visibility into your air quality system with OnGuard's intuitive dashboard. Displaying real-time data through color-coded dashboards and detailed graphs to provide a clear view of air quality conditions to maintain a safe environment.

Get access to:

- Live and historical system performance and air quality data. Measure pressure, CO<sub>2</sub> concentration, particulate count and mass concentration, motor load, humidity and temperature, alert times, severity, and details.
- Access remotely from a web-based interface and change cabin pressure, conduct pressure testing, set alarms, recalibrate sensors, and more.
- Historical data analysis: Review and analyse up to 6-years of stored data making it easy to understand system performance and air quality trends, saving lives and protecting equipment.



Controller Animation

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