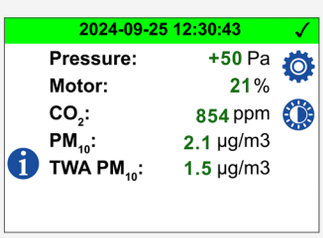
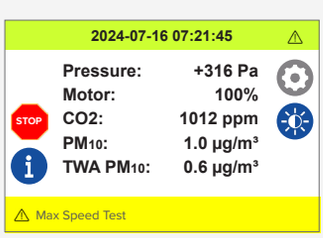
Air Quality Control and Data Management

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.

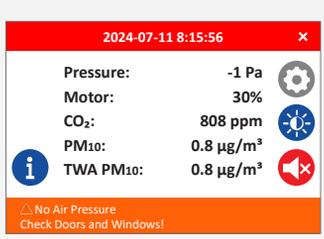
OnGuard's advanced monitoring capabilities provide real-time air quality measurements and alerts. It actively notifies operators and site staff of any compromising air quality conditions that may affect their health, safety or equipment. For a complete air quality control and data management system,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



Default Screen
The OnGuard home screen displays sensor telemetry and control parameters.



Max Pressure Test Function
Maximum pressure result achieved when the motor is running at 100% speed.



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_2 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 CO2, temperature, humidity, particulate mass and count in real time.

Main Unit
Manages data storage, processing and communications.

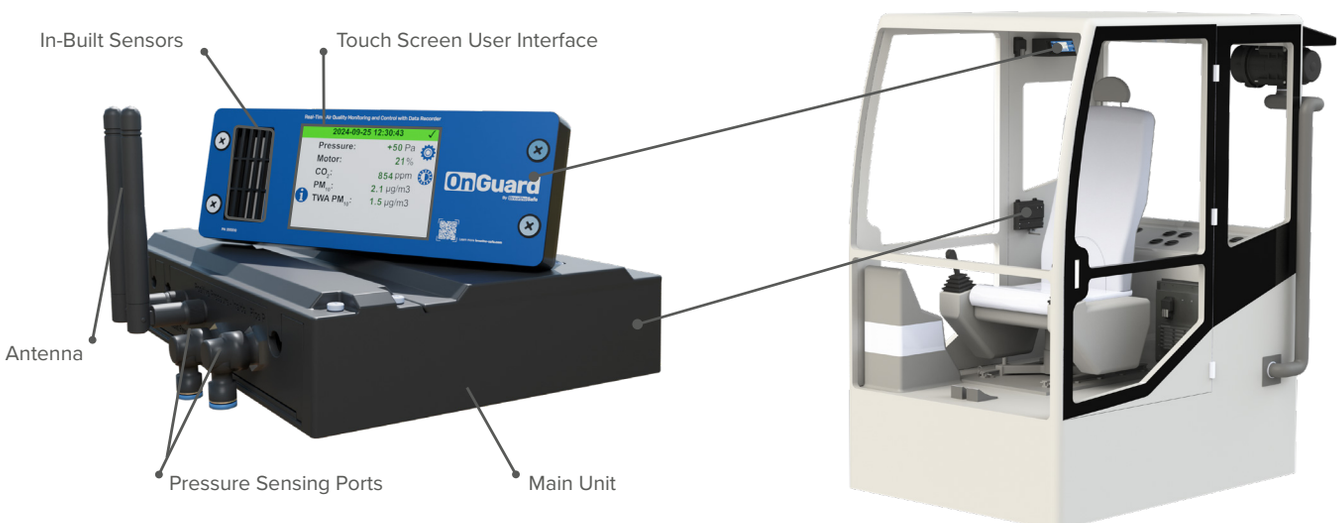
Alert Notification
Shows current alert details and possible solutions to the operator.

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_2 and Particulate Concentration Flush
Detects elevated CO2 and particulate levels. Intelligently increasing the fresh air supply to reduce CO2 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_2 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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