

# OpenBlue

## Healthy Buildings



The blueprint of the future  
for healthy people, healthy  
places and a healthy planet

# Dynamic. Connected. Safe. Sustainable. Healthy.

Every day you are responsible for ensuring your building provides safe, healthy environments for your people.

The challenges you face may change, but your mission is the same: reduce building operating costs, increase productivity, and enhance revenue opportunities while delivering on your sustainability promise.

Johnson Controls helps you achieve the goals that matter most. With OpenBlue Healthy Buildings, we bring you the market's most comprehensive suite of connected solutions. We power high-performance teams and satisfied customers, optimize building performance, and drive your sustainability goals.

## Capture technology benefits cost-effectively

Draw on data-driven artificial intelligence, advanced clean air solutions, and flexible environmental controls to achieve rapid return on your investment. We show you how to turn raw data into actionable insights, advancing your business and financial goals.



Remote Diagnostics

Proactive analysis of building energy and equipment data

Skin Temperature Screening

Enhanced Communications and Experiences

Social Distance Monitoring

Contact Tracing

Space Utilization

Predictive Maintenance

Scenario Planning

Metasys Building Automation System

Central Plant Optimization

Healthy Buildings Assessment and Advisory

Flexible Facilities

Clean Air



Healthy People



Healthy Places



Healthy Planet

Our Shanghai HQ

# Enjoy a healthy experience throughout the entire building

OpenBlue Healthy Buildings drives enhanced building experiences that start the moment occupants walk through the door.

Powered by data and connected through the OpenBlue digital platform, this comprehensive suite transforms how people interact with their surroundings to provide clean air, infection control, and a streamlined, touchless experience. This helps give occupants more peace of mind and greater confidence in the safety of their surroundings.

## 1 Healthy People

Protect occupant wellbeing by reinforcing healthy behaviors, monitoring for anomalous symptoms, and facilitating touchless experiences. Our solutions translate raw building data into actionable insights and use AI to automate processes for enhanced accuracy and remote capabilities. This creates healthier spaces and places.



### Clean air

The latest ventilation and disinfection solutions help mitigate a host of airborne irritants and pollutants, such as viruses, bacterial microorganisms, dust, smoke, and smog, to provide occupants with cleaner, safer, breathable air.

### Contact tracing

Automated contact tracing empowers building management and employers to respond more efficiently to infection risk. If an individual falls ill, the system can retroactively trace person-to-person and person-to-space contact, enabling human resources to identify at-risk occupants and act quickly to minimize spread.

### Social distance monitoring

Social distancing compliance is monitored in real time, with reminders and violation alerts sent if occupants stand too close together or spaces become over-occupied.

### Enhanced communication

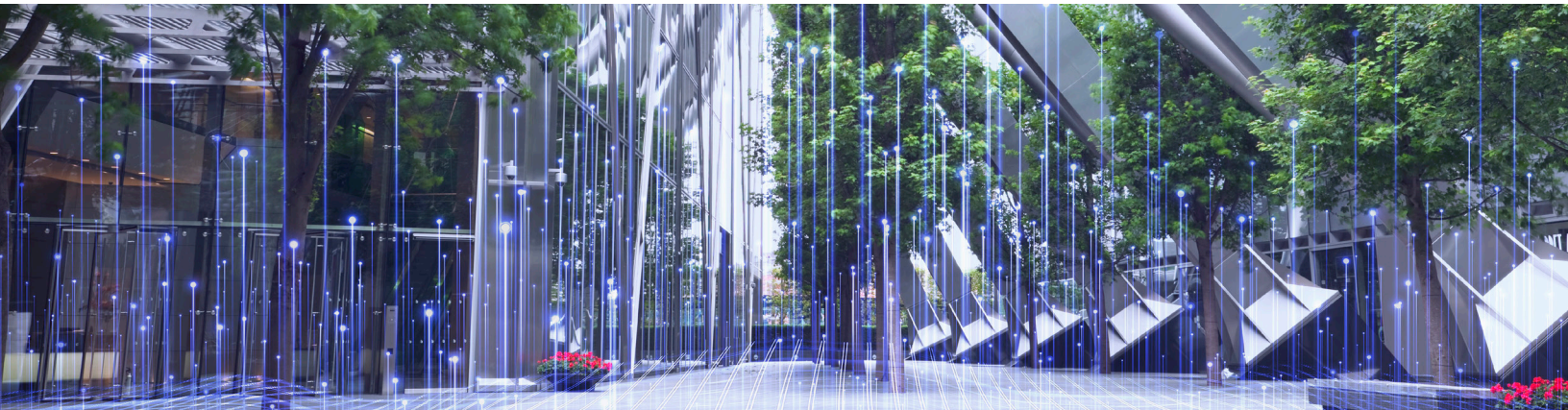
An easy-to-use smartphone app gives occupants the power to perform everyday activities. This includes everything from adjusting heating and lighting to scheduling conference rooms to moving through the building without touchpads or badges.

### Temperature screening

Skin temperature screening uses thermal imaging to non-intrusively scan moving crowds for fever symptoms without disrupting the flow of traffic. This allows for more efficient triage of employees requiring further manual temperature screening.

## 2 Healthy Places

Creating, maintaining, and monitoring a healthy building environment should be easy and intuitive for owners and managers. OpenBlue Healthy Buildings delivers operational efficiency through powerful solutions and processes.



### Ventilation and air quality

Mixed-air HVAC systems greatly improve your building's clean air delivery rate by maximizing outdoor air circulation.

### Filtration

Upgrading air handling and packing unit filters, or adding in-zone filtration solutions such as portable HEPA filters, can reduce airborne contaminants.

### Air and surface disinfection

Disinfectant solutions such as ultraviolet-C (UV-C) lighting and bipolar ionization (BPI) help reduce active pathogens on surfaces or in the air.

### Environmental controls

These controls monitor and adjust components that are vital in reducing airborne contamination and preventing cross-contamination, including HVAC, fire, and security solutions. Gain granular insight into variables such as room pressurization, air change rates, humidity, and temperature.

### Flexible facilities

Adaptable infrastructure enables building owners and facilities to rapidly change operating conditions and repurpose spaces when confronted with an emergency. Solutions include pre-configured building control sequences, integrated equipment to enhance detection and remediation of unhealthy conditions, turnkey facility improvement programs, and cloud-based monitoring.

### Scenario planning

These solutions proactively determine connections between people and spaces, predict the effects of possible negative events, and enable early intervention to reduce risk.

### Space utilization

As people reenter and reoccupy buildings, space utilization helps address health and safety considerations related to new workflows, collaboration hot spots, and service area bottlenecks.

### Predictive maintenance

Avoid unplanned downtime and its effect on operations and occupants. Solutions support timely equipment maintenance and replacement to maintain required HVAC system performance.

### Real-time diagnostics

Our service experts monitor equipment performance remotely and in real time. Virtual 24/7 expertise backs your service team.

### Healthy Buildings Assessment and Advisory

Our global team of skilled experts delivers unmatched risk assessment and consulting, providing tailored services enhanced with data-driven insights and analytics capabilities.

### 3 Healthy Planet

Achieve sustainability goals and community engagement by reducing energy and water use, achieving carbon neutrality, streamlining sustainability reporting, and maximizing return on your investment.



#### **Proactive analysis of energy and equipment data**

See your building come alive and respond automatically to the environment and occupant needs. Increase efficiency and sustainability with tools and solutions to monitor, measure, and optimize building performance.

#### **Metasys building automation system**

This industry-leading system enhances occupant comfort, safety, security, and productivity while providing system control and easy access to building data. Coordinate control of fire, security, and lighting systems, and streamline facility management.

#### **Central Plant Optimization**

This easy-to-use app gathers real-time data from control systems, meters, weather forecasts, and utility rates to optimize the operation of chilled water, hot water, steam, and cogeneration plants. Cut utility costs, meet sustainability goals, extend asset life, and avoid costly unplanned downtime.



#### **Get the right solution**

No two buildings are alike – this means no two healthy building strategies are alike. Our experts assess your building's infection risk and unique needs, work with you to clarify your priorities and strategy, then customize OpenBlue Healthy Buildings to fit your operations and budget. We support sound financial management with options such as performance contracting and buildings-as-a-service (BaaS) funding. You realize rapid ROI while achieving your business goals.

Get more peace of mind knowing that you, your building, and your occupants are healthy and safe. Let Johnson Controls power your healthy building mission.



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### **About OpenBlue**

OpenBlue is a complete suite of connected solutions that serves industries from workplaces to schools, hospitals to campuses, and beyond. This platform includes tailored, AI-infused service solutions such as remote diagnostics, predictive maintenance, compliance monitoring, advanced risk assessments, and more. A dynamic new space from Johnson Controls, OpenBlue is how buildings come alive.

### **About Johnson Controls**

At Johnson Controls, we transform the environments where people live, work, learn, and play. From optimizing building performance to improving safety and enhancing comfort, we drive the outcomes that matter most. We deliver our promise in industries such as healthcare, education, data centers, and manufacturing. With a global team of over 100,000 experts in more than 150 countries and over 135 years of innovation experience, we are the power behind our customers' mission. Our leading portfolio of building technology and solutions includes some of the most trusted names in the industry, such as Tyco®, YORK®, Metasys®, Ruskin®, Titus®, Frick®, PENN®, Sabroe®, Simplex®, and Grinnell®.

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