

# Wireless IoT Sensors & Centralized Monitoring

## Ensure a Safe, Healthy, and Compliant Environment with Wireless IoT Sensors

State-of-the-art sensors provide remote, real-time monitoring of critical environmental conditions, protecting your assets, personnel, and business operations across all industry verticals. Designed, developed & manufactured by Black Box, every sensor is engineered with enterprise-grade reliability, robust firmware, and proven interoperability with major IoT platforms.

A scalable portfolio of hardware and software components tailored to your specific environment and monitoring needs.



Wireless, LoRaWAN & LTE Based IoT Sensors



Industry 4.0



Monitoring Software  
BBX Visible

## Wireless, LoRaWAN & 4G/LTE WIRELESS SENSORS

### Environmental Condition Monitoring



**Ambient Monitoring**

Temperature & Humidity



**Air Quality Monitoring**

Air Quality Index



**Door Open Close Monitoring**

Door Open Close & Hall Sensor



**Light Intensity Monitoring**

Ambient Light Intensity



**Occupancy Detection**

Human Presence & Motion

### Workplace Safety



Personal Tracker



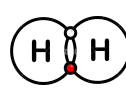
CO Sensor



CO2 Sensor



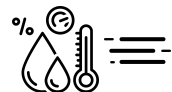
Ammonia Sensor



H2 Sensor

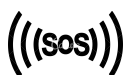


Multi Sensor  
Temp | RH | CO



Multi Sensor  
Temp | RH | CO | Motion

### Panic & Distress



Smart Panic Button



Intelligent Relay with Wireless Alarm

## Key Benefits of Wireless IoT-Based Remote Monitoring

### IoT Based Remote Monitoring in Real-Time

IoT sensors enable continuous monitoring of temperature, humidity, air quality, occupancy, energy usage, lighting and safety.

### Expanding Infrastructure

Wireless sensors are easier and less expensive to implement as no wiring is needed.

### Lower Maintenance

Wireless sensors don't need wiring to be maintained, reducing the cost of maintenance.

### Strengthened Safety & Security

Smart surveillance, access control, and personnel tracking enables faster response during emergencies and ensures safeties.

## Use Cases

**Manufacturing Facilities:** Real-time monitoring of smoke, CO, CO<sub>2</sub>, H<sub>2</sub>, vibration and other critical data, optimize air quality, temperature, occupancy, and energy usage to make workspaces efficient

- Hazardous Gas Monitoring
- CO, CO<sub>2</sub> Detection
- H<sub>2</sub> and Ammonia Detection
- Smoke Detection

## Wireless IoT Sensor based Remote Monitoring

Leveraging reliable wireless technologies like Wireless, LoRaWAN, and LTE, the products deliver scalable, long-range, and energy-efficient solutions for mission-critical monitoring.

- Monitor vital parameters such as temperature, humidity, CO, CO<sub>2</sub>, air quality (AQI), smoke, pressure, vibration, and light intensity and many other environmental parameters that can be a threat to business continuity.
- Wireless sensors from Black Box integrate seamlessly with existing systems for precise data collection.
- Automated alerts support proactive maintenance and fast emergency response, minimizing downtime.

## Why Choose Black Box Remote Monitoring?

BBX Visible is created to seamlessly connect IoT devices, sensors, gateways, and other end-point devices to gain insights from the acquired data.

- Real-Time Monitoring
- Scalable for Any Environment
- Multi-Technology Expertise
- Industry-Proven Reliability



BBX Visible IoT Platform & Mobile App

**ABOUT BLACK BOX:** Black Box® TPS is a leading global technology provider trusted by customers in mission-critical industries to master operations in the world's most demanding high-performance IT environments. Black Box is providing leading technology solutions since 1976, Black Box helps more than 175,000 customers in 150 countries build, manage, optimize, and secure IT infrastructures. The breadth of our global reach, continuous innovation, and depth of our expertise accelerate customer success by bringing people, ideas, and technology together to solve real-world business problems.