

# Global Building Automation Sensors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Building Automation Sensors market size is expected to reach \$ 11779 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

In 2025, global Building Automation Sensor production reached about 550 million units, with annual capacity near 720 million units. Average unit price is about USD 12, and the industry operates at an average 36% gross margin. Building Automation Sensors are intelligent field devices used in Building Automation Systems (BAS) to monitor and control environmental, mechanical, and energy parameters within commercial, industrial, and institutional buildings. They measure variables such as temperature, humidity, CO<sub>2</sub> concentration, occupancy/motion, light levels, pressure, airflow, vibration, water leakage, and power consumption, enabling centralized control of HVAC, lighting, fire safety, access control, and energy management systems. The supply chain begins upstream with semiconductor chips (MEMS sensing elements, microcontrollers, ASICs), passive components, PCBs, wireless modules (Wi-Fi, Zigbee, Bluetooth, LoRa), and enclosure materials; midstream players integrate sensing elements with firmware, calibration, and communication protocols (BACnet, Modbus, KNX, LonWorks) into finished sensor modules; downstream channels include OEM HVAC and building control equipment manufacturers, system integrators, and distributors who deploy sensors into offices, hospitals, data centers, airports, smart factories, and smart city infrastructure, with ongoing value driven by IoT connectivity, edge processing, cloud analytics, and energy-efficiency retrofits.

This report studies the global Building Automation Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Building Automation Sensors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Building Automation Sensors that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Building Automation Sensors total production and demand, 2021-2032, (K Units)

Global Building Automation Sensors total production value, 2021-2032, (USD Million)

Global Building Automation Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Building Automation Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Building Automation Sensors domestic production, consumption, key domestic manufacturers and share

Global Building Automation Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Building Automation Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Building Automation Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Building Automation Sensors market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Honeywell, Siemens, Schneider Electric, Johnson Controls, ABB Group, Robert Bosch, Sensirion, Dwyer Instruments, Setra Systems, Figaro Engineering, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Building Automation Sensors market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by

manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Building Automation Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Building Automation Sensors Market, Segmentation by Type:

Temperature Sensors

Occupancy Sensors

Humidity Sensors

Air Quality Sensors

Pressure Sensors

Others

#### Global Building Automation Sensors Market, Segmentation by Detection Method:

MEMS-Based Sensors

Infrared-Based Sensors

Capacitive-Based Sensors

Ultrasonic-Based Sensors

Thermal-Based Sensors

Others

#### Global Building Automation Sensors Market, Segmentation by Application:

Commercial Buildings

Healthcare Facilities

Industrial Facilities

Data Centers

Others

#### Companies Profiled:

Honeywell

Siemens

Schneider Electric

Johnson Controls

ABB Group

Robert Bosch

Sensirion

Dwyer Instruments

Setra Systems

Figaro Engineering

Vaisala

Amphenol

Panasonic

TE Connectivity

Pepperl + Fuchs

Kieback & Peter

**Key Questions Answered:**

1. How big is the global Building Automation Sensors market?
2. What is the demand of the global Building Automation Sensors market?
3. What is the year over year growth of the global Building Automation Sensors market?
4. What is the production and production value of the global Building Automation Sensors market?
5. Who are the key producers in the global Building Automation Sensors market?
6. What are the growth factors driving the market demand?

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