

Global Building Automation Sensors Market Growth 2026-2032

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Abstracts

The global Building Automation Sensors market size is predicted to grow from US\$ 6437 million in 2025 to US\$ 11519 million in 2032; it is expected to grow at a CAGR of 8.7% from 2026 to 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, CO₂ 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.

United States market for Building Automation Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Building Automation Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Building Automation Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Building Automation Sensors players cover Honeywell, Siemens, Schneider Electric, Johnson Controls, ABB Group, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Building Automation Sensors Industry Forecast" looks at past sales and reviews total world Building Automation Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Building Automation Sensors sales for 2026 through 2032. With Building Automation Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Building Automation Sensors industry.

This Insight Report provides a comprehensive analysis of the global Building Automation Sensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Building Automation Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Building Automation Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Building Automation Sensors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Building Automation Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Building Automation Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Temperature Sensors

Occupancy Sensors

Humidity Sensors

Air Quality Sensors

Pressure Sensors

Others

Segmentation by Detection Method:

MEMS-Based Sensors

Infrared-Based Sensors

Capacitive-Based Sensors

Ultrasonic-Based Sensors

Thermal-Based Sensors

Others

Segmentation by Application:

Commercial Buildings

Healthcare Facilities

Industrial Facilities

Data Centers

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Building Automation Sensors market?

What factors are driving Building Automation Sensors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Building Automation Sensors market opportunities vary by end market size?

How does Building Automation Sensors break out by Type, by Application?

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