

Global Building Automation Sensors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Building Automation Sensors market size was valued at US\$ 6770 million in 2025 and is forecast to a readjusted size of US\$ 11779 million by 2032 with a CAGR of 8.2% during review period.

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.

This report is a detailed and comprehensive analysis for global Building Automation

Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Building Automation Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Building Automation Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Building Automation Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Building Automation Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Building Automation Sensors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Building Automation Sensors market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Building Automation Sensors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Temperature Sensors

Occupancy Sensors

Humidity Sensors

Air Quality Sensors

Pressure Sensors

Others

Market segment by Detection Method

MEMS-Based Sensors

Infrared-Based Sensors

Capacitive-Based Sensors

Ultrasonic-Based Sensors

Thermal-Based Sensors

Others

Market segment by Application

Commercial Buildings

Healthcare Facilities

Industrial Facilities

Data Centers

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Building Automation Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Building Automation Sensors, with price, sales quantity, revenue, and global market share of Building Automation Sensors from 2021 to 2026.

Chapter 3, the Building Automation Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Building Automation Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Building Automation Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Building Automation Sensors.

Chapter 14 and 15, to describe Building Automation Sensors sales channel, distributors, customers, research findings and conclusion.

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