

Global Intelligent Wireless Temperature and Vibration Sensor 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 Intelligent Wireless Temperature and Vibration Sensor market size was valued at US\$ 2505 million in 2025 and is forecast to a readjusted size of US\$ 3720 million by 2032 with a CAGR of 6.0% during review period.

The intelligent wireless temperature and vibration sensor is a sensing device that integrates temperature and vibration monitoring functions. It transmits real-time monitoring data to the management system through wireless communication technology to achieve remote monitoring of the equipment's operating status, fault warning and maintenance optimization, thereby improving the equipment's operating efficiency and reliability. It is widely used in manufacturing, energy, utilities, transportation and other industries.

The upstream of the intelligent wireless temperature and vibration sensor industry chain mainly includes core component and basic material suppliers, such as temperature sensing chips, MEMS vibration sensors (accelerometers), MCUs/SoCs, wireless communication chips (Bluetooth, LoRa, NB-IoT, Sub-GHz, etc.), power management chips, batteries or energy harvesting modules, and packaging materials; the midstream involves the manufacturing and system integration of intelligent wireless temperature and vibration sensors, responsible for sensor module design, signal acquisition and edge computing algorithms, low-power wireless communication, structural and protective design (dustproof, waterproof, explosion-proof), and complete machine assembly and testing; the downstream is the industry application and platform service market, widely used in industrial equipment condition monitoring and predictive maintenance, energy and power facilities, rail transit, petrochemicals, wind power and

heavy machinery, smart factories, and smart cities, and is usually deeply integrated with industrial IoT platforms and data analysis software, driving the transformation of equipment operation and maintenance from passive maintenance to intelligent and digital transformation.

In 2025, the average price of intelligent wireless temperature and vibration sensors is projected to be \$218 per unit, with sales reaching 11.17 million units.

Smart wireless temperature and vibration sensors represent a new trend in modern industrial monitoring and maintenance. By combining temperature and vibration monitoring functions, these sensors can not only capture key data on the operating status of equipment in real time, but also transmit information to the central system through wireless communication technology to achieve remote monitoring and intelligent analysis. This advanced technology not only improves the efficiency and safety of equipment operation, but also makes preventive maintenance possible, effectively reducing production downtime and costs caused by equipment failure. With the development of Industry 4.0, smart wireless temperature and vibration sensors will play an increasingly important role in various industries and promote the pace of industrial intelligent transformation.

This report is a detailed and comprehensive analysis for global Intelligent Wireless Temperature and Vibration Sensor 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 Intelligent Wireless Temperature and Vibration Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Intelligent Wireless Temperature and Vibration Sensor 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 Intelligent Wireless Temperature and Vibration Sensor 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 Intelligent Wireless Temperature and Vibration Sensor 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 Intelligent Wireless Temperature and Vibration Sensor

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 Intelligent Wireless Temperature and Vibration Sensor 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, Bosch, Schneider Electric, GE Digital, Emerson, Rockwell Automation, Fluke, ABB, Baker Hughes, etc.

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

Market Segmentation

Intelligent Wireless Temperature and Vibration Sensor 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 Sensor

Vibration Sensor

Temperature and Vibration Sensor

Market segment by Performance Level

Basic Monitoring Level

Industrial Grade

High-End Predictive

Market segment by Deployment Method

Independent Node Type

Networked Type

Market segment by Application

Medical

Agriculture

Manufacturing

Energy

Others

Major players covered

Honeywell

Siemens

Bosch

Schneider Electric

GE Digital

Emerson

Rockwell Automation

Fluke

ABB

Baker Hughes

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 Intelligent Wireless Temperature and Vibration Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Intelligent Wireless Temperature and Vibration Sensor, with price, sales quantity, revenue, and global market share of Intelligent Wireless Temperature and Vibration Sensor from 2021 to 2026.

Chapter 3, the Intelligent Wireless Temperature and Vibration Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Intelligent Wireless Temperature and Vibration Sensor 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 Intelligent Wireless Temperature and Vibration Sensor 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 Intelligent Wireless Temperature and Vibration Sensor.

Chapter 14 and 15, to describe Intelligent Wireless Temperature and Vibration Sensor sales channel, distributors, customers, research findings and conclusion.

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