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Global Wireless IoT Vibration Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Wireless IoT Vibration Sensors market size is expected to reach $ 1215 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

Wireless IoT vibration sensors are low-power intelligent sensing endpoints designed for industrial equipment condition monitoring and predictive maintenance. Their core value lies in integrating tri-axial vibration acquisition, temperature sensing, wireless transmission, local feature extraction, and platform connectivity into either a single node or a complete system, enabling continuous health monitoring of motors, pumps, fans, compressors, conveyors, and other rotating assets without large-scale wiring work or lengthy shutdown retrofits. Official product pages show that this product category has evolved from simple vibration alarm devices into industrial nodes capable of outputting velocity, acceleration, spectrum, FFT, waveform, PeakVue, or AI-based diagnostic results. Communication options now cover LoRaWAN, WiFi, Bluetooth, WirelessHART, proprietary sub-1GHz approaches, and multi-protocol designs, while some products are also built for hazardous locations, wide-temperature environments, and cloud-edge collaborative deployment. Typical customers include process industries, discrete manufacturing, energy and utilities, equipment maintenance providers, and system integrators. Common delivery models have also expanded from standalone hardware sales to sensor plus gateway plus software platform bundles, subscription-based diagnostic services, and machine-health managed services. In essence, the industry is upgrading traditional route-based vibration inspection into scalable, continuously connected machine health monitoring infrastructure.

The essence of the wireless IoT vibration sensor industry is no longer the simple wireless conversion of traditional vibration instruments. It is becoming a low-cost,

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scalable online condition-sensing node architecture for industrial sites. Official pages from Yokogawa, TE Connectivity, Emerson, Murata, and RONDS repeatedly highlight the same pattern: a single node now integrates vibration acquisition, temperature monitoring, wireless communication, and feature-value processing, turning vibration monitoring from a labor-intensive, route-based, and heavily wired activity into a digital capability that can be retrofitted quickly, operated continuously, and connected centrally to software platforms. For the vast installed base of low- to medium-criticality pumps, fans, motors, and conveying equipment, this model materially lowers the threshold for condition monitoring deployment and expands predictive maintenance from a high-cost solution reserved for a small number of critical assets into standardized infrastructure that can be scaled across an entire plant. As products move beyond overall vibration values toward spectrum, waveform, FFT, PeakVue, and AI-based fault identification, the center of value is also shifting away from standalone hardware performance toward data quality, diagnostic depth, and closed-loop platform capability.

From the demand side, growth in this segment rests on a highly solid foundation because it directly addresses three of the most rigid needs on the plant floor: reducing unplanned downtime, lowering inspection and wiring costs, and increasing the lead time for maintenance decisions. Official materials from Petasense, KCF, Augury, THK, and Miniotec consistently position continuous online monitoring, remote diagnostics, fault alerts, and machine health platforms as core selling points, showing that customers are no longer satisfied with merely buying a sensor. They increasingly want faster root-cause identification, lower false-alarm rates, and recommendations that maintenance teams can execute more easily. At the same time, hazardous-area certifications, wide-temperature design, long battery life, and no-shutdown installation capability are pushing these products further into high-value environments such as oil and gas, chemicals, mining, water utilities, and heavy industry. At the policy level, China?s encouragement of industrial AI use cases and sensor-based predictive maintenance, the U.S. Department of Energy?s long-standing preference for predictive maintenance over purely reactive maintenance, and Europe?s Industry 5.0 emphasis on industrial resilience and availability all provide durable macro support for this market. As a result, the sector looks more like a long-cycle beneficiary of manufacturing digitalization than a short-cycle replacement story tied to isolated pieces of equipment.

From a competitive perspective, wireless IoT vibration sensors have already formed a distinctly multi-region supply structure. North American vendors are stronger in platformization and higher-level diagnostics. European vendors stand out in industrial site adaptability and hazardous-area capability. Japanese vendors have deeper experience in retrofit deployment and manufacturing-floor stability scenarios. Greater

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China vendors are advancing rapidly in LoRa-based solutions, combined vibration-and-temperature nodes, high-density point deployment, and cost-performance offerings. Korean vendors are also beginning to establish productized capabilities in motor predictive maintenance and proprietary industrial scenarios. This means the industry is unlikely to converge around a single dominant technology route. Instead, it is more likely to expand through application-layer segmentation, with one end of the market focused on low-power wide-area monitoring nodes for large-scale rollout, and the other focused on high-frequency waveform acquisition and AI-based diagnostics for critical equipment, while gateways, cloud platforms, edge algorithms, and maintenance services amplify value in the middle. As long as global manufacturers continue to pursue higher asset utilization, lower maintenance costs, and stronger operational resilience, wireless IoT vibration sensors should remain one of the most practical and attractive growth areas within the industrial sensing layer.

This report studies the global Wireless IoT Vibration Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Wireless IoT Vibration 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 Wireless IoT Vibration Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Wireless IoT Vibration Sensors total production and demand, 2021-2032, (K Units)
Global Wireless IoT Vibration Sensors total production value, 2021-2032, (USD Million)
Global Wireless IoT Vibration Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Wireless IoT Vibration Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Wireless IoT Vibration Sensors domestic production, consumption, key domestic manufacturers and share
Global Wireless IoT Vibration Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Wireless IoT Vibration Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Wireless IoT Vibration Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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This report profiles key players in the global Wireless IoT Vibration 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 BeanAir GmbH, National Control Devices, LLC, Yokogawa Electric Corporation, Petasense, Inc., ERBESSD Instruments, ifm electronic gmbh, Broadsens, Baker Hughes Company, TWTG, TE Connectivity Ltd., 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 Wireless IoT Vibration 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 Wireless IoT Vibration Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Global Wireless IoT Vibration Sensors Market, Segmentation by Type:

LoRaWAN

4GHz / Wirepas Mesh

Others

Global Wireless IoT Vibration Sensors Market, Segmentation by Power Supply Mode:

Low-Temperature

Medium-Temperature

High-Temperature

Other

Global Wireless IoT Vibration Sensors Market, Segmentation by Diagnostic Capability Level:

Generator Chip/Module

Generator Unit

System/Complete Machine

Global Wireless IoT Vibration Sensors Market, Segmentation by Application:

Ground Vibration Monitoring

Condition Monitoring

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Land Surveying

Structural Health Monitoring

Test and Measurement

Companies Profiled:

BeanAir GmbH

National Control Devices, LLC

Yokogawa Electric Corporation

Petasense, Inc.

ERBESSD Instruments

ifm electronic gmbh

Broadsens

Baker Hughes Company

TWTG

TE Connectivity Ltd.

Advantech Co., Ltd.

Key Questions Answered:
1. How big is the global Wireless IoT Vibration Sensors market?
2. What is the demand of the global Wireless IoT Vibration Sensors market?
3. What is the year over year growth of the global Wireless IoT Vibration Sensors market?
4. What is the production and production value of the global Wireless IoT Vibration Sensors market?

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5. Who are the key producers in the global Wireless IoT Vibration Sensors market?
6. What are the growth factors driving the market demand?

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