

Global Wireless Environmental Sensors Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Wireless Environmental Sensors market size was valued at US\$ 3476 million in 2025 and is forecast to a readjusted size of US\$ 8196 million by 2032 with a CAGR of 13.2% during review period.

In 2024, global sales of wireless environmental sensors reached 480 million units, with an average selling price of \$6.2 per unit. Wireless environmental sensors are miniaturized sensing terminals used to monitor environmental parameters such as temperature, humidity, VOCs, CO₂, PM2.5, light intensity, noise, and pressure, transmitting data via protocols such as LoRa, NB-IoT, BLE, and Wi-Fi. They are widely used in smart buildings, industrial sites, smart homes, agricultural greenhouses, cold chain logistics, and public facility monitoring. Upstream raw materials include MEMS sensor chips, MCUs, RF modules, batteries (lithium-ion or button batteries), plastic housings, PCB boards, and small antenna components. The material consumption per unit is approximately 25-60g, with sensor chips accounting for about 32% of the cost, RF modules about 28%, and batteries about 16%. Global total production capacity is approximately 620 million units per year, with an average industry gross margin of approximately 24-30%. Downstream demand comprises smart homes (approximately 40%), smart buildings and commercial spaces (approximately 25%), industrial monitoring (approximately 20%), agriculture and cold chain (approximately 10%), and other applications (approximately 5%). With the global digitalization of cities, increasing penetration of IoT terminals, growing pressure for energy conservation, emission reduction, and ESG compliance, and the widespread adoption of multi-sensor linkage in smart homes, market demand is experiencing rapid growth. Future business opportunities will primarily focus on ultra-low power, long-battery-life sensors (5-10 year

battery life), all-in-one sensor modules, intelligent sensor nodes supporting edge AI, and data operation and SaaS service models in large-scale deployments, driving the industry's upgrade from hardware sales to a 'sensing + service' value chain.

The core trend in the wireless environmental sensor market lies in the shift from single-point monitoring to nationwide data networking, and from hardware devices to a data service value chain.

Firstly, from the demand side, mandatory or quasi-mandatory monitoring requirements are emerging in areas such as smart buildings, smart homes, industrial site safety, energy management, air quality control in medical institutions, and ESG compliance in commercial spaces, resulting in a continued rapid increase in the penetration rate of multi-parameter sensors.

Secondly, from a technological perspective, the continuous decline in MEMS sensor prices, the decrease in NB-IoT/LoRa connection costs, and the enhanced coverage of BLE Mesh are continuously reducing the TCO of wireless sensing nodes, driving the development from single-point deployments to large-scale installations of hundreds to thousands of points.

Furthermore, market competition is shifting from comparing hardware specifications to comparing battery life (5-10 years), sensitivity drift control, AI edge detection, anti-interference capabilities, and platform compatibility. Chinese companies have a clear advantage in cost and integration, accelerating the replacement of overseas brands; while European and American manufacturers still maintain technological barriers in high-precision gas sensing and industrial-grade reliability.

Future growth highlights mainly include: 1. All-in-one environmental composite sensors replacing single-parameter products; 2. Rapid expansion of demand for ESG monitoring in smart buildings and offices; 3. AIoT platforms driving value-added applications of sensor data (predictive maintenance, energy optimization, health monitoring); 4. Explosive demand for low-cost wireless sensor nodes due to urbanization in developing countries. Overall, this market is in an upward cycle of increased scale, functional upgrades, and service extension.

This report is a detailed and comprehensive analysis for global Wireless Environmental Sensors market. Both quantitative and qualitative analyses are presented by company, 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 Wireless Environmental Sensors market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Wireless Environmental Sensors market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Wireless Environmental Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Wireless Environmental Sensors market shares of main players, in revenue (\$ Million), 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 Wireless Environmental 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 Wireless Environmental Sensors market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include TE Connectivity, Panasonic, Ruuvi, BeanAir, UbiBot, Samsara Inc., RATOC Systems, Inc, Monnit, Pressac Communications Limited, Swift Sensors, etc.

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

Market segmentation

Wireless Environmental 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Atmospheric Environment Monitoring

- Water Quality Monitoring

- Soil and Agriculture

Market segment by Wireless Communication Technology

- Short-range Communication Technologies

- Low-power Wide-area Networks

- Others

Market segment by Power Supply Method

- Disposable Batteries

- Rechargeable Batteries

- Energy Harvesting

- Wired Power Supply

Market segment by Application

- Industrial Automation

Smart Home

Security Monitoring

Others

Market segment by players, this report covers

TE Connectivity

Panasonic

Ruuvi

BeanAir

UbiBot

Samsara Inc.

RATOC Systems,Inc

Monnit

Pressac Communications Limited

Swift Sensors

Zebra Technologies

Conserv

OMRON

Accutherm Industrial

Rika Sensor

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

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

Chapter 2, to profile the top players of Wireless Environmental Sensors, with revenue, gross margin, and global market share of Wireless Environmental Sensors from 2021 to 2026.

Chapter 3, the Wireless Environmental Sensors competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Wireless Environmental Sensors market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Wireless Environmental Sensors.

Chapter 13, to describe Wireless Environmental Sensors research findings and conclusion.

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