

# Global Environmental Sensor and Monitor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Environmental Sensor and Monitor market size is expected to reach \$ 4436 million by 2032, rising at a market growth of 10.3% CAGR during the forecast period (2026-2032).

Environmental Sensors and Monitors refer to devices and systems used to detect and monitor various physical, chemical, biological, and meteorological parameters in the environment. As global environmental issues become more pressing, these sensors and monitors play a critical role in areas such as air quality, greenhouse gas emissions, water resources, noise pollution, and radiation levels. These devices typically collect data through sensors and analyze it through monitoring systems to ensure timely responses to environmental changes. There are a wide variety of environmental sensors, including gas sensors, temperature and humidity sensors, optical sensors, soil moisture sensors, noise sensors, and others, each with different detection functions and application fields. Environmental monitors combine sensors with data acquisition systems, processing units, and display devices to provide comprehensive environmental monitoring and early warning services. These monitors help governments, businesses, and individuals understand and assess the health of their surroundings and take appropriate measures for improvement. In industries, agriculture, urban management, and research, the use of environmental sensors and monitors is becoming increasingly widespread. They provide accurate monitoring tools for environmental protection, pollution control, and resource management. With the development of smart technologies, many environmental monitoring systems are now capable of remote data collection and real-time feedback, making environmental management more efficient and precise.

## Market Opportunities and Key Drivers

The intensification of global environmental issues is propelling the environmental sensor and monitor market into a phase of rapid growth. The proliferation of IoT technology has upgraded traditional monitoring equipment into intelligent terminals, enabling real-time data collection and remote transmission while significantly reducing deployment costs. Governments worldwide are tightening environmental regulations centered on carbon neutrality goals, forcing high-energy-consumption enterprises to install online monitoring equipment to meet compliance requirements. Concurrently, rising public concern over air and water quality safety is driving rapid growth in demand for household environmental monitoring products, creating new incremental space extending from professional to consumer markets.

### Market Challenges and Risks

The industry faces dual pressures of technological iteration and cost control. Long-term stability and data accuracy of sensors in complex environments remain technical bottlenecks, with high R&D investment thresholds. Critical sensor chips rely on imports, placing pressure on small and medium enterprises amid supply chain fluctuations. Price competition in the mid-to-low-end market is intensifying, continuously compressing profit margins. Additionally, uncertainties in environmental policy adjustments across countries and tightening regulations on cross-border data flow may impact companies' globalization strategies.

### Downstream Demand Trends

Demand is exhibiting diversification and scenario-specific characteristics. Deepening ultra-low emission transformations in the industrial sector are driving increased demand for online monitoring of unconventional pollutants such as ammonia slip and volatile organic compounds. Smart city construction is shifting from macro weather stations to micro-environment gridded monitoring, supporting precision pollution control and waterlogging early warning. Digital agriculture is advancing soil moisture and meteorological sensors from experimental fields to large-scale farmland applications, enabling precision cultivation. The household market is evolving from single-parameter PM2.5 detection toward multi-parameter integration including formaldehyde and carbon dioxide, forming new growth drivers.

### Regional Trends

The North American market, leveraging its technological accumulation, continues to

lead innovation in high-end monitoring equipment, with EPA network upgrades driving demand for optical sensors. Europe, driven by the 'Green Deal,' is accelerating deployment of VOCs gridded systems in industrial parks. The Asia-Pacific region exhibits the most dynamic growth, with China rapidly extending its urban micro-environment monitoring networks and India witnessing surging government procurement demand due to severe smog. Middle Eastern countries are integrating environmental monitoring into their economic diversification strategies, Latin America is deploying rainforest early warning networks supported by international funds, and Africa is leveraging low-cost weather stations to support agricultural transformation.

This report studies the global Environmental Sensor and Monitor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Environmental Sensor and Monitor 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 Environmental Sensor and Monitor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Environmental Sensor and Monitor total production and demand, 2021-2032, (Units)

Global Environmental Sensor and Monitor total production value, 2021-2032, (USD Million)

Global Environmental Sensor and Monitor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Environmental Sensor and Monitor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Environmental Sensor and Monitor domestic production, consumption, key domestic manufacturers and share

Global Environmental Sensor and Monitor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Environmental Sensor and Monitor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Environmental Sensor and Monitor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Environmental Sensor and Monitor 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 Honeywell, Texas Instruments, Infineon, SICK, Endress, Horiba, Shimadzu, ABB, STMicroelectronics, Vaisala, 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 Environmental Sensor and Monitor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (USD/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 Environmental Sensor and Monitor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Environmental Sensor and Monitor Market, Segmentation by Type:

Gas Environmental Sensor

Particulate Environmental Sensor

Temperature Humidity Environmental Sensor

Radiation Environmental Sensor

Global Environmental Sensor and Monitor Market, Segmentation by Measurement Principle:

Electrochemical Environmental Sensor

Optical Environmental Sensor

Semiconductor Environmental Sensor

Global Environmental Sensor and Monitor Market, Segmentation by Deployment Mode:

Fixed Environmental Monitor

Portable Environmental Monitor

Wearable Environmental Monitor

Global Environmental Sensor and Monitor Market, Segmentation by Application:

Air Monitoring

Water Monitoring

Soil Monitoring

Noise Monitoring

Others

## Companies Profiled:

Honeywell

Texas Instruments

Infineon

SICK

Endress

Horiba

Shimadzu

ABB

STMicroelectronics

Vaisala

Figaro

Aeroqual

Cubic Sensor and Instrument

Focused Photonics

Beijing SDL Technology

Hebei Sailhero Environmental Protection Hi-Tech

Jiangsu Lanchuang Intelligent Technology

Key Questions Answered:

1. How big is the global Environmental Sensor and Monitor market?
2. What is the demand of the global Environmental Sensor and Monitor market?
3. What is the year over year growth of the global Environmental Sensor and Monitor market?
4. What is the production and production value of the global Environmental Sensor and Monitor market?
5. Who are the key producers in the global Environmental Sensor and Monitor market?
6. What are the growth factors driving the market demand?

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