

Air Quality Monitoring Market Size and Forecast (2021 - 2034), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Component (Hardware, Software and Services); Product Type (Outdoor and Indoor); Deployment Type (Fixed Monitoring Systems and Portable Monitoring Systems); Sampling Method (Active Monitoring Systems, Passive Monitoring, Manual Monitoring, and Others); End User Industry (Government and Regulatory Bodies, Industrial and Manufacturing Sector, Commercial and Institutional Buildings, Residential Users, and Environmental Research and Academia) and Geography (North America, Europe, Asia Pacific, Middle East and Africa, and South and Central America)

<https://marketpublishers.com/r/AE584F077728EN.html>

Date: July 2026

Pages: 343

Price: US\$ 4,450.00 (Single User License)

ID: AE584F077728EN

Abstracts

The air quality monitoring market size was valued at US\$ 7.23 billion in 2025 and is expected to reach US\$ 14.37 billion by 2034; it is estimated to register a CAGR of 7.9% during 2026–2034.

The air quality monitoring market is segmented into five major regions—North America, Europe, Asia Pacific (APAC), the Middle East & Africa (MEA), and South & Central America. Europe dominated the market in 2025, followed by North America and Asia

Pacific, respectively.

The market for air quality monitoring market in Europe is segmented into France, Germany, Russia, Italy, the UK, and the Rest of Europe. The market for air quality monitoring market in Europe is segmented into France, Germany, Russia, Italy, the UK, and the Rest of Europe, with strong regional coordination supported by the European Union's environmental governance framework. The region is characterized by highly structured air quality regulations and well-established monitoring infrastructure driven by policy frameworks under the European Environment Agency. Countries such as Germany and the UK have advanced monitoring networks with dense station coverage, while France, Italy, and Spain are continuously upgrading their systems to improve real-time pollution tracking and compliance with evolving environmental directives.

The market in Europe is strongly influenced by stringent air quality standards and long-term sustainability commitments. The EU Ambient Air Quality Directives are a key driver, pushing member states to maintain continuous monitoring of pollutants such as PM2.5, NO₂, and ozone. Increasing public awareness of health risks associated with air pollution, particularly in urban and industrial regions, is also accelerating demand for advanced monitoring systems. Additionally, transboundary pollution concerns across European countries are encouraging greater data sharing and harmonization of monitoring practices. Environmental challenges such as urban traffic emissions, industrial pollution, and seasonal heating-related emissions continue to drive investments in more accurate and real-time monitoring technologies.

Market future trend: A major trend shaping the air quality monitoring market in 2025–2026 is the increasing integration of artificial intelligence (AI), machine learning, and predictive analytics into environmental monitoring platforms. The industry is moving beyond simple data collection toward intelligent systems that can analyze complex pollution patterns, identify sources, and forecast air quality conditions in advance. According to the World Meteorological Organization (WMO, 2025), combining atmospheric data models with real-time observational inputs significantly improves the accuracy of air quality forecasting and early warning systems, especially for events such as wildfire smoke dispersion, dust storms, and urban smog episodes.

This trend is being actively implemented across developed and emerging regions as environmental agencies and technology providers adopt data-driven decision-making frameworks. The European Environment Agency (EEA, 2025) has highlighted the growing use of integrated environmental data platforms that merge ground-based sensor readings, meteorological data, and satellite observations to generate predictive

air quality insights across Europe. Similarly, in North America, environmental monitoring programs are increasingly using AI-enabled systems to interpret large volumes of sensor data and improve the speed and accuracy of public air quality alerts issued by regulatory agencies such as the United States Environmental Protection Agency (EPA, 2025). These advancements are also being supported by cloud computing infrastructure, enabling real-time processing and visualization of air quality data at scale.

Agilent Technologies, Inc; Emerson Electric Co.; Thermo Fisher Scientific Inc; Siemens AG; Teledyne Technologies Incorporated; Honeywell International Inc.; HORIBA, Ltd; 3M; Testo SE & Co. KGaA; and Aeroqual are among the key players profiled during this market study. Several other essential market players were also studied and analyzed to get a holistic view of the global air quality monitoring market and its ecosystem.

The overall air quality monitoring market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the air quality monitoring market size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders specializing in the air quality monitoring market.

Saves and reduces time required for identifying the market growth, size, leading players, and segments in the global Air Quality Monitoring market.

Highlights key business priorities to assist companies in realigning their business strategies

Emphasizes key findings and recommendations that uncover emerging industry trends in the global Air Quality Monitoring market, enabling stakeholders across the value chain to craft effective long-term strategies

Develop/modify business expansion plans by analyzing substantial growth prospects in mature and emerging markets

Scrutinizes in-depth global Air Quality Monitoring market trends, along with

factors driving the market, as well as those hindering it

Enhances the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution

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