

Air Quality Monitoring Equipment Market Forecasts to 2032 – Global Analysis By Product (Indoor Monitors, Fixed Indoor Monitors, Portable Indoor Monitors, Outdoor Monitors, Portable Outdoor Monitors, Fixed Outdoor Monitors, Dust & Particulate Matter Monitors, AQM Stations and Wearable Monitors), Sampling Method, Equipment Type, Pollutant, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Air Quality Monitoring Equipment Market is accounted for \$6.3 billion in 2025 and is expected to reach \$11.9 billion by 2032 growing at a CAGR of 9.5% during the forecast period. Air quality monitoring equipment refers to a range of devices and instruments used to detect and measure pollutants in the air, including gases like carbon monoxide, nitrogen dioxide, sulfur dioxide, ozone, and particulate matter (PM2.5 and PM10). These systems help assess ambient air quality, ensuring compliance with environmental regulations and safeguarding public health. They are widely used by government agencies, industries, and research institutions to monitor indoor and outdoor air pollution levels.

Market Dynamics:

Driver:

Expansion of indoor air quality (IAQ) monitoring solutions

The growing focus on maintaining healthy indoor environments in residential,

commercial, and industrial buildings is driving demand for IAQ monitoring systems. Increased awareness of the health impacts of indoor pollutants such as VOCs, CO₂, and particulate matter is influencing market growth. Technological advancements have enabled more accurate, compact, and user-friendly IAQ devices for continuous air monitoring. Additionally, smart home trends and building automation are promoting integration of IAQ sensors into HVAC and security systems.

Restraint:

Calibration and data accuracy issues

Air quality monitoring systems often face challenges related to sensor drift and the need for frequent recalibration to maintain accuracy. Low-cost sensors, while affordable, can produce inconsistent or unreliable data under varying environmental conditions. Discrepancies between sensor output and actual pollutant concentration reduce trust in data for regulatory and research use. These limitations increase the operational costs and hinder broader market penetration, especially in cost-sensitive applications.

Opportunity:

Rising demand for portable and wearable monitors

The increasing consumer interest in personal health and safety has accelerated the adoption of compact, portable air quality monitors. These devices provide real-time pollutant levels, empowering individuals to make informed decisions regarding their surroundings. Urban dwellers, especially those with respiratory conditions, are turning to personal air sensors for daily exposure tracking. Furthermore, demand from travelers, students, and mobile workers is expanding the consumer base for these portable solutions.

Threat:

Substitute technologies

The emergence of satellite-based air quality monitoring platforms offers a broad and cost-efficient alternative for large-scale environmental surveillance. As satellite data becomes more accessible and accurate, reliance on fixed or localized monitoring stations may decline. Integration of remote sensing data into environmental policymaking may reduce the dependency on traditional equipment. This shift in

technological preference can challenge the market share of conventional air monitoring device manufacturers.

Covid-19 Impact:

The COVID-19 pandemic brought increased attention to the importance of indoor air quality, especially in crowded public and healthcare settings. However, there was a surge in installations of indoor monitoring systems to ensure proper ventilation and reduce virus transmission risk. Manufacturers shifted focus toward remote, IoT-enabled air monitoring solutions to adapt to new workplace and building safety standards. The pandemic also sparked interest in air purification systems, indirectly boosting the need for air quality sensors to evaluate performance.

The indoor monitors segment is expected to be the largest during the forecast period

The indoor monitors segment is expected to account for the largest market share during the forecast period due to rising pollution levels and increased time spent indoors. Growing urbanization and tighter building envelopes have heightened the need for continuous indoor pollutant tracking. Regulatory bodies and workplace safety standards are pushing adoption of certified indoor monitoring solutions. As IAQ awareness grows, manufacturers are focusing on user-friendly, multifunctional indoor monitoring systems.

The active/continuous monitoring segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the active/continuous monitoring segment is predicted to witness the highest growth rate due to demand across offices, schools, hospitals, and transport hubs. Indoor air quality monitoring is also gaining traction in luxury real estate and hospitality sectors as a value-added feature. Government-led green building initiatives and certifications such as LEED further encourage IAQ investments. Technological improvements, including wireless connectivity and cloud-based data analysis, are making indoor systems more accessible and scalable.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to their ability to provide real-time data and trend analysis. These systems are particularly valuable for industrial, urban, and healthcare applications where air quality can change rapidly. Continuous systems are being adopted for environmental

compliance, early warning systems, and operational safety. Their integration with AI-driven analytics tools is further enhancing their functionality and market attractiveness.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR due to growing concerns over occupational exposure to hazardous gases and particulates. Continuous devices provide greater granularity and long-term insights compared to passive alternatives. Governments and environmental agencies are also funding the installation of permanent air monitoring networks for better pollution control. Enhanced reliability and data transparency offered by these systems are key growth enablers.

Key players in the market

Some of the key players in Air Quality Monitoring Equipment Market include 3M, General Electric, HORIBA Scientific, Aeroqual, Emerson Electric Co., Siemens, Merck KGaA, Teledyne Technologies Incorporated, Testo SE & Co. KGaA, Thermo Fisher Scientific Inc., KUNAK TECHNOLOGIES SL, Airthings, Honeywell International Inc., CODEL International LTD and Modcon Systems Ltd.

Key Developments:

In March 2025, Thermo Fisher Scientific Inc. launched the AeroTrace 5000, a next-generation air quality monitoring system designed for real-time detection of ultrafine particulate matter (PM1) and volatile organic compounds (VOCs). The system delivers results in under 5 minutes and integrates IoT connectivity for seamless data reporting, targeting urban municipalities and industrial sectors in North America and Europe.

In February 2025, Honeywell International Inc. introduced the AirSense Pro, a compact, portable air quality monitor with advanced AI-driven analytics. Capable of measuring CO₂, NO₂, and PM_{2.5} levels with 10% higher accuracy than previous models, it's designed for residential and commercial applications, with a focus on smart city initiatives in Asia-Pacific.

In January 2025, HORIBA Scientific unveiled the EcoMonitor AQ-200, a modular air quality monitoring solution optimized for continuous ambient air analysis. Featuring a 20% reduction in calibration time and enhanced sensor durability, it caters to environmental agencies and research institutes, particularly in Japan and the European

Union.

Product Types Covered:

Indoor Monitors

Fixed Indoor Monitors

Portable Indoor Monitors

Outdoor Monitors

Portable Outdoor Monitors

Fixed Outdoor Monitors

Dust & Particulate Matter Monitors

AQM Stations

Wearable Monitors

Sampling Methods Covered:

Active/Continuous Monitoring

Manual Monitoring

Passive Monitoring

Intermittent Monitoring

Stack Monitoring

Equipment Types Covered:

Gas Analyzers

Particulate Matter Monitors

Metrological Monitoring

Air Samplers

Other Equipment Types

Pollutants Covered:

Chemical Pollutants

Nitrogen Oxides

Sulfur Oxides

Carbon Oxides

Volatile Organic Compounds

Other Chemical Pollutants

Physical Pollutants

Biological Pollutants

Other Pollutants

End Users Covered:

Government Agencies and Academic Institutes

Commercial and Residential Users

Petrochemical Industry

Power Generation Plants

Pharmaceutical Industry

Smart City Authorities

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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