

Indoor Air Quality Monitor Market– Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F Segmented By Product Type (Fixed and Portable), By End Use (Residential, Commercial, Industrial), By Region, Competition

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Abstracts

The Global Indoor Air Quality Monitor Market was valued at USD 4.75 billion in 2022 and is anticipated to experience robust growth in the forecast period with a CAGR of 7.2% through 2028. Air quality monitoring systems play a crucial role in ensuring the well-being of individuals and improving overall quality of life. These systems help detect and measure various pollutants, such as particulate matter, volatile organic compounds (VOCs), carbon dioxide, and formaldehyde, present in indoor environments. They provide real-time data and alerts, enabling users to take necessary actions to improve indoor air quality. Factors such as rising awareness about indoor air pollution, stringent regulations, the growing commercial sector, and technological advancements are driving market growth. The market for indoor air quality monitors has been witnessing strong growth globally due to increasing concerns about air pollution and its impact on human health.

Key Market Drivers:

Increasing Awareness About Indoor Air Pollution

With growing concerns about the impact of air pollution on human health, there is a rising awareness of indoor air quality and its effects on overall well-being. People are becoming more conscious of the potential health risks associated with poor indoor air quality, including respiratory issues, allergies, and other health complications. This increased awareness is driving the demand for indoor air quality monitors as individuals

and organizations seek to monitor and improve the air quality in their indoor environments. In recent years, there has been a significant increase in awareness about indoor air pollution, which has had a profound impact on the global indoor air quality monitor market. People are now more conscious of the potential health risks associated with poor indoor air quality and the need for effective monitoring solutions. The environmental impact of indoor air pollution is also gaining attention. People recognize that pollutants released indoors can have adverse effects on the environment and contribute to climate change. This heightened environmental awareness has fueled the demand for air quality monitors as part of sustainable living practices.

Stringent Regulations and Standards

Governments and regulatory bodies worldwide are implementing stricter regulations and standards related to indoor air quality. This is driving the adoption of air quality monitoring systems in various sectors, including residential, commercial, industrial, and healthcare, to ensure compliance with these regulations and maintain a safe indoor environment.

Growing Emphasis on Occupational Safety and Health

Occupational safety and health regulations require employers to provide a safe working environment for their employees. Indoor air quality plays a crucial role in ensuring a healthy workplace. As organizations prioritize the well-being of their employees, there is an increasing demand for indoor air quality monitors to continuously monitor and maintain optimal indoor air quality levels. In the global indoor air quality monitor market, there is a growing emphasis on occupational safety and health. Businesses and organizations are increasingly recognizing the importance of maintaining high indoor air quality standards to protect the health and well-being of employees. Occupational safety and health regulations, along with industry standards, drive the adoption of indoor air quality monitors in workplaces. These monitors provide real-time data on pollutant levels, ventilation effectiveness, and overall indoor air quality, enabling organizations to identify potential hazards and take necessary measures to mitigate them.

Increasing Adoption of Smart Home Automation

The growing trend of smart home automation presents opportunities for the integration of indoor air quality monitors into smart home systems. Indoor air quality monitors can be connected to other smart devices, such as thermostats, air purifiers, and HVAC systems, to automatically regulate and improve indoor air quality. This integration

enhances the convenience and effectiveness of managing indoor air quality in residential settings. The growing popularity of smart homes, where various devices and systems are connected and controlled remotely, is bolstering the demand for smart indoor air quality monitors. These monitors can be integrated into existing smart home ecosystems, allowing users to monitor and manage their indoor air quality conveniently through their connected devices. Smart indoor air quality monitors offer enhanced convenience and ease of use compared to traditional monitors. With smart features such as real-time monitoring, automated alerts, and compatibility with voice assistants and mobile apps, users can effortlessly track and manage their indoor air quality from anywhere, at any time.

Emphasis on Energy Efficiency

Energy efficiency is a key consideration in building design and operations. Indoor air quality monitors are being integrated into energy management systems to optimize ventilation and reduce energy consumption while maintaining healthy air quality. The focus on sustainable building practices and energy-efficient technologies drives the adoption of indoor air quality monitoring solutions. In the global indoor air quality monitor market, there is a growing emphasis on energy efficiency. As organizations and individuals strive to create healthier indoor environments, they are also becoming increasingly conscious of their energy consumption and environmental impact. Energy-efficient indoor air quality monitors play a crucial role in achieving a balance between maintaining good air quality and minimizing energy usage. One key aspect of energy efficiency in indoor air quality monitors is the development of low-power sensors and monitoring systems. These devices are designed to consume minimal energy while providing accurate and reliable air quality data. By optimizing power usage, they can operate for extended periods without draining excessive energy resources.

Key Market Challenges:

Cost of Monitoring Systems: Indoor air quality monitoring systems can be expensive, especially those that offer comprehensive monitoring capabilities. The high cost of these systems can limit their affordability and accessibility for some consumers or businesses.

Complexity of Customization and Operation: Indoor air quality monitoring systems often require customization to address specific needs and environments. This customization process can be complex and may require professional expertise to operate effectively. The complexity can act as a barrier to widespread adoption.

Dependency on Professional Expertise: Proper interpretation and analysis of indoor air quality data often requires professional expertise. This reliance on experts can pose challenges, as it may limit the scalability of monitoring programs and increase costs associated with the deployment and maintenance of the systems.

Key Market Trends:

Technological Developments: The development of advanced sensor technologies has made it easier and more cost-effective to monitor indoor air quality. Innovative sensors can detect various pollutants, such as volatile organic compounds (VOCs), particulate matter, carbon dioxide (CO₂), and formaldehyde. These sensors provide accurate and real-time data, enabling users to take immediate actions to improve indoor air quality. The advancements in sensor technology have made indoor air quality monitors more accessible and affordable, driving their adoption in residential and commercial settings.

Increasing Prevalence of Respiratory Conditions.

The rising incidence of respiratory diseases, allergies, and asthma is creating a greater awareness of the importance of monitoring indoor air quality. People are investing in air quality monitors to track and manage their indoor environment, particularly those with respiratory conditions or sensitive health issues.

Increasing Demand for Portable and Wearable Monitors

Portable and wearable indoor air quality monitors are gaining popularity. These compact devices allow individuals to monitor the air quality around them wherever they go. They are especially useful for people with respiratory conditions or those who are sensitive to environmental pollutants.

Focus On Real-Time Monitoring

Real-time monitoring capabilities are becoming increasingly important in indoor air quality monitors. Users want instant access to accurate and up-to-date information about pollutant levels in their surroundings. This trend is driving the development of advanced sensors and data analytics solutions for real-time monitoring and analysis.

Growth In Commercial Applications

The commercial sector, including offices, hotels, and healthcare facilities, is witnessing

significant growth in the adoption of indoor air quality monitors. Organizations are increasingly investing in these devices to ensure occupant health, comply with regulations, and create healthier indoor environments.

Segmental Insights

Product Type Insights

With a 51.2% market share in 2022, the portable segment led the global indoor quality monitor market and is predicted to continue expanding over the coming years. The global market for portable air quality monitors is indeed experiencing rapid growth, emerging as one of the fastest-growing segments in the industry. The increasing concerns regarding air pollution and its impact on health have led to a significant rise in the demand for portable air quality monitors. There is growing awareness among individuals about the harmful effects of air pollution on health. This has resulted in an increased focus on monitoring personal exposure to pollutants. Portable air quality monitors provide individuals with real-time data on the air quality in their immediate surroundings, empowering them to make informed decisions to protect their health.

End Use Insights

The global indoor air quality monitor market is fueled by the commercial sector during the forecast period. The global market for indoor air quality monitors is indeed experiencing rapid growth, particularly in the commercial sector. Employers are increasingly recognizing the impact of indoor air quality on employee health, well-being, and productivity. Poor indoor air quality can lead to increased sick days, reduced cognitive function, and decreased productivity. As a result, businesses are investing in indoor air quality monitoring systems to ensure a healthy and comfortable work environment for their employees.

Regional Insights

The global market for indoor air quality monitors is indeed experiencing rapid growth in the North America region. The increasing awareness about the importance of maintaining healthy indoor air quality and the implementation of stricter regulations have fueled the demand for air quality monitoring systems in North America. Additionally, North America has implemented stringent regulations and standards regarding indoor air quality in various sectors, including residential, commercial, and industrial. These regulations drive the adoption of air quality monitoring systems to ensure compliance

and maintain a safe and healthy indoor environment.

Key Market Players

Daikin North America LLC.

Emerson Electric Co.

Camfil AB

Horiba, Ltd.

3M Company

Aeroqual Limited

Awair Inc.

Lennox International Inc.

Panasonic Corporation

Siemens AG

Report Scope:

In this report, the indoor air quality monitor market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Indoor Air Quality Monitor Market, By Product Type:

Fixed

Portable

Indoor Air Quality Monitor Market, By End Use:

Residential

Commercial

Industrial

Indoor Air Quality Monitor Market, By Region:

North America

Europe

South America

Middle East & Africa

Asia Pacific

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the indoor air quality monitor market.

Available Customizations:

Indoor Air Quality Monitor market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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