India Air Quality Monitoring System Market Report and Forecast 2025-2034

Market Report | 2025-07-21 | 134 pages | EMR Inc.

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Report description:

The India air quality monitoring system market size is expected to expand at a CAGR of roughly 14.80% in the forecast period of 2025-2034. The growth can be attributed to the increasing pollution due to growing industrialisation in the country.

News and Developments in the Market

In April 2023, HORIBA, a global leader in analytics technology, announced the addition of FTX-ONE-CL and FTX-ONE-RS to its FTX-ONE exhaust gas analyser series. These products are designed and manufactured to measure the gas levels continuously and precisely.

The FTX-ONE-CL will be utilised to target non-methane organic gas, ethanol, nitrous oxide, and formaldehyde. This model has increased the durability and portability of the product, making it flexible to the changes in the laboratory layout.

The FTX-ONE-RS model will be used to measure the concentration of ammonia and methane in exhaust gases. This model can also be equipped with hydrocarbon and oxygen analysers, which improves the multifunctioning of the device.

In March 2023, HORIBA confirmed the launch of a hydrogen gas analyser called HyEVO. This new equipment enables continuous measurement of concentration levels of hydrogen in the gas.

HyEVO has been created to be exceptionally accurate when measuring concentration levels, even in gases that contain high water level, without needing to remove the water content. Additionally, the response time and warm-up time has been greatly reduced, compared to conventional equipments.

This product will enhance the product list of HORIBA and expand their reach in the measurement and monitoring equipment market, further solidifying their place in the India air quality monitoring system market.

In January 2023, AccuWeather, a weather forecasting company, announced that it would be acquiring a French start-up Plume Labs. The terms of the acquisition have not been disclosed yet.

Plume Labs applies machine learning model on the data, eliminating the customers need to combine data from different sources. And with the resources and thousands of environmental monitoring stations of Plume Labs, AccuWeather aims to improve their and Plume Labs impact in helping people avoid air pollution.

India Air Quality Monitoring System Market Trends

Air quality monitoring system uses sensors to measure air pollutants and the outside pollution like dust, gases, and noise, among others. These systems are used to assess the level of pollution in relation to the ambient air quality standards. The air quality standard in India is currently measured by CPCB, pollution control committees, state pollution control boards, and National Environment Engineering Research Institute in cities and states.

The rapidly developing technology is propelling the growth of the India air quality monitoring system market. Many companies and organisations are increasing research and development for commercialisation and development of advanced air quality monitoring products.

The rising pollution levels in the country due to rapid industrialisation and infrastructure development, especially in more crowded and metropolitan areas, is a major driving factor for the market growth.

Rise in development plans for smart cities and growing environmental concerns are the major trends which are speeding up the development of the market.

India Air Quality Monitoring System Market Segmentation

The EMR's report titled "India Air Quality Monitoring System Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Product Type

- Indoor Monitors
- Outdoor Monitors
- Wearable Monitors
- Others

Market Breakup by Pollutant Type

- Chemical Pollutants
- Physical Pollutants
- Biological Pollutants
- Others

Market Breakup by Sampling Method

- Active/Continuous Monitoring
- Passive Monitoring

- Intermittent Monitoring
- Stack Monitoring
- Others

Market Breakup by End Use

- Residential
- Commercial
- Industrial
- Others

Indoor Monitors, Wearable Monitors, and Outdoor Monitors are Major Product Types in the India Air Quality Monitoring System Market

On the basis of product type, the market can be bifurcated into indoor monitors, wearable monitors, and outdoor monitors, among others. The indoor segment can be further divided into fixed and portable. The outdoor segment also has further divisions including fixed, portable, dust and particulate matter, and air quality monitoring (AQM) stations, among others.

The indoor air quality monitors test the indoor air and determine the dust and contaminant levels present in the air. These monitors are increasing in adoption due to the increasing awareness for maintaining healthy air quality.

The outdoor air quality monitors are used for long-term measurement of pollutant levels in the environment and give the result in real time. The assessment includes measurement of various pollutants like nitrogen, carbon dioxide, sulphur dioxide, carbon monoxide, and methane, among many others. This segment is expected to grow significantly with various developments plans launched in the country.

Major Pollutant Types include Chemical Pollutants, Physical Pollutants, and Biological Pollutants

Based on pollutant type, the India air quality monitoring system market can be divided into chemical pollutants, physical pollutants, and biological pollutants, among others. The chemical pollutants in air are the most common type in the market. In this segment, carbon monoxide, lead, nitrogen, ozone, and sulphur dioxide, among others are monitored by AQMs.

This segment is expected to grow rapidly owing to the rising awareness for air pollution control and smart city development plans. The proliferating automobile industry will also add to the market expansion.

Physical pollutants are comprised of turbidity, temperature, suspended solids, foam, and radioactivity, among others. Biological pollutants found outdoor and indoor include bacteria, house dust, mould, mildew, and pollen, among others.

Sampling Methods include Active/Continuous Monitoring, Intermittent Monitoring, Passive Monitoring, and Stack Monitoring

Based on sampling methods, the India air quality monitoring system market can be categorised into active/continuous monitoring, intermittent monitoring, passive monitoring, and stack monitoring, among others.

The active/continuous monitoring are increasingly becoming prominent in multiple industries as the awareness to control air pollution rises. Industries and pharmaceutical product manufacturers are adopting monitoring systems to accurately measure the pollutants in the surrounding air. The active/ continuous monitoring system allows the air to be sampled throughout the process and after.

The passive monitoring involves settle plates which are kept exposed to the air for a period so that the biological contaminants and microbes can settle on the plate. The result can then be measured to understand the biological particles and microbial contaminants present in the air.

Intermittent monitoring is a non-continuous method for pollutant measurement. It utilises filters, sorbents, and canister or other sampling tool and the air is analysed by passing it through the medium in different pressures.

Stack monitoring segment of India air quality monitoring system market is rapidly growing due to the rising industrialisation in the country. This monitoring method is usually used by manufacturing facilities and in industrial chimneys.

It enables the facility manager and inspectors to keep a regular check on the waste produced and released into the atmosphere. This data can later be used to maintain the efficiency of the equipments and improve the performance.

The System Finds Extensive End-Uses in Residential, Commercial, and Industrial Sectors

The end-users in the India air quality monitoring system market include residential, commercial, and industrial, among others. The residential users of air quality monitoring systems are growing rapidly owing to the COVID-19 pandemic which acts as a major historical factor for the market. In the last few years, people have become more concerned about their indoor air quality as pollution levels keep rising.

The government is implementing stringent regulations to control carbon emissions and people are becoming aware of the importance of clean air. Following these development, noticeable changes are being made by industries to measure and control waste released in the air. This change can significantly augment the industrial use of AQMs.

Commercial uses of AQMs are rising to maintain healthy air conditions in commercial buildings and office buildings. This use of AQMs is increasing in the market as companies place more importance in maintaining a healthy environment for the employees.

Competitive Landscape

The extensive EMR report provides an in-depth evaluation of the market based on Porter's five forces model and a SWOT analysis. The India air quality monitoring system market report comprehensively analyses key players in the market, covering their competitive landscape and the latest developments like mergers, acquisitions, investments, and expansion plans.

Thermo Fisher Scientific

Thermo Fisher Scientific is an American company that provides various medical equipments, reagents and consumables, software and services for diagnostics and research, and tools for analytics. Some of their top products include thermal cycler, reagents, Bluetooth electronic multichannel pipettes, and pipetting kits.

Elofic Industries Limited

Elofic Industries Limited is one of India's largest companies engaged in filter manufacturing. They offer a complete range of filtration and lubrication solutions with products such as oil filters, fuel filters, hydraulic filters, air filters, coolants, and grease.

Their air-filters are available in different forms including foam filter, plastic body air filters, and cabin air filters, among others.

Chemtrols Industries Pvt. Ltd.

Chemtrols Industries Pvt. Ltd. is one of the leading manufacturers and suppliers of analytics and emission monitoring services in India. Their products and services include process analytics, air quality monitoring, flame and gas detection systems, oxygen analyser, and continuous emission monitoring systems.

Instrumex

Instrumex is one of the largest companies manufacturing environment emission measuring devices and analytical instruments for pollution. They have a wide range of products including dust sampler, air monitoring equipments, weather monitoring station, stack monitoring station, and continuous emission monitoring systems, among many other monitoring systems.

HORIBA India Private Limited

HORIBA India Private Limited is a branch of the HORIBA Group base in Japan. HORIBA provides an array of devices and services for automotive emission monitoring, environmental monitoring, analytics devices for medical diagnostics and market peripheral measuring, and measuring equipment, among others.

Their expertise lies in automotive emissions measurement, air pollution and water pollution control, stack-gas measurement, and quality control in a wide array of industries.

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