

Global PM2.5 Monitors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PM2.5 Monitors market size is expected to reach \$ 1565 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

PM2.5 Monitor is a kind of equipment, which can monitor and measure the concentration of PM2.5 particles in the air. PM2.5 is the abbreviation for fine Particulate Matter with a diameter smaller than 2.5 microns. (By comparison, human hair diameters range from 40 to 120 microns.) PM2.5 is produced by combustion, including vehicle exhaust, and by chemical reactions between gases such as sulfur dioxide, nitrogen oxides, and volatile organic compounds.

Market Drivers for PM2.5 Monitors

The increasing awareness of the adverse health effects of air pollution is a major driver for the PM2.5 monitors market. Rising incidences of respiratory diseases, cardiovascular disorders, and other pollution-related health issues have created a growing demand for accurate air quality monitoring devices. Governments worldwide are implementing stricter environmental regulations and air quality standards, further boosting the adoption of PM2.5 monitors in industries, residential areas, and public spaces. Additionally, the expansion of smart city initiatives and the integration of air quality monitoring systems into IoT networks are accelerating the demand for advanced, real-time PM2.5 monitoring solutions.

Challenges in the PM2.5 Monitors Market

One of the key challenges in the PM2.5 monitors market is the high cost of advanced monitoring devices, which can hinder their adoption, particularly in developing regions.

Many high-precision PM2.5 monitors rely on sophisticated technology, making them expensive for widespread deployment in resource-constrained settings. Additionally, ensuring the accuracy and reliability of monitoring devices in varying environmental conditions poses a challenge, as inconsistent readings can undermine their effectiveness. Addressing these challenges will require innovation in cost-effective manufacturing techniques and the development of robust, reliable sensors suitable for diverse applications.

Global PM2.5 monitors main players are Thermo Fisher, 3M, PerkinElmer, FPI, Kanomax, Horiba, etc. Global top 1 manufacturer hold a share over 40%. North America is the largest market, with a share about 36%. In terms of product, beta attenuation monitor is the largest segment, with a share over 54%. And in terms of application, the largest application is outdoor monitoring, followed by indoor monitoring.

This report studies the global PM2.5 Monitors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PM2.5 Monitors 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 PM2.5 Monitors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PM2.5 Monitors total production and demand, 2021-2032, (K Units)

Global PM2.5 Monitors total production value, 2021-2032, (USD Million)

Global PM2.5 Monitors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global PM2.5 Monitors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: PM2.5 Monitors domestic production, consumption, key domestic manufacturers and share

Global PM2.5 Monitors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global PM2.5 Monitors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global PM2.5 Monitors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global PM2.5 Monitors 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 Thermo Fisher, 3M, PerkinElmer, TSI, FPI, Hebei Sailhero, Teledyne API, Universtar, SDL, METONE, 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 PM2.5 Monitors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/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 PM2.5 Monitors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PM2.5 Monitors Market, Segmentation by Type:

TEOM Monitor

Beta Attenuation Monitor

Others

Global PM2.5 Monitors Market, Segmentation by Application:

Outdoor Monitoring

Indoor Monitoring

Companies Profiled:

Thermo Fisher

3M

PerkinElmer

TSI

FPI

Hebei Sailhero

Teledyne API

Universtar

SDL

METONE

Kanomax

Horiba

UniTec

Enviro Technology

Aeroqual

Grimm (Durag)

Ecotech

ENVEA (Env??ironnement)

COMDE Derenda

TOADKK

Pallas

Key Questions Answered:

1. How big is the global PM2.5 Monitors market?
2. What is the demand of the global PM2.5 Monitors market?
3. What is the year over year growth of the global PM2.5 Monitors market?
4. What is the production and production value of the global PM2.5 Monitors market?
5. Who are the key producers in the global PM2.5 Monitors market?
6. What are the growth factors driving the market demand?

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