

Global Remote Real-time Particle Monitors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Remote Real-time Particle Monitors market size is expected to reach \$ 3515 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

In 2025, global Remote Real-time Particle Monitors production reached approximately 2 million units, with an average global market price of around US\$ 1000 per unit. Annual production capacity is 2.4 million units. Gross Profit Margin: 36%. Remote real-time particle monitors (often called PM2.5 / PM10 air quality monitors) are devices that continuously measure airborne particulate matter and transmit data live?either to a display, mobile app, or cloud platform. The remote real-time particle monitor industry chain starts upstream with core components such as laser scattering sensors (optical PM sensors), microcontrollers, communication modules (WiFi/Bluetooth/LoRa), and calibration systems, supplied by semiconductor and sensing technology companies like Sensirion, Honeywell, and Amphenol; midstream players integrate these into finished monitoring devices and systems (portable monitors, fixed stations, IoT-enabled platforms), including manufacturers such as TSI Incorporated and Thermo Fisher Scientific; downstream, products are deployed across environmental agencies, industrial facilities, smart cities, and consumer markets, often combined with cloud platforms, data analytics, and regulatory compliance services to deliver real-time air quality insights. Remote real-time particle monitors are shifting from being purely regulatory or industrial tools to becoming data-driven, IoT-connected health devices, which significantly expands their addressable market.

This report studies the global Remote Real-time Particle Monitors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Remote Real-time Particle 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 Remote Real-time Particle Monitors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Remote Real-time Particle Monitors total production and demand, 2021-2032, (K Units)

Global Remote Real-time Particle Monitors total production value, 2021-2032, (USD Million)

Global Remote Real-time Particle Monitors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Remote Real-time Particle Monitors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Remote Real-time Particle Monitors domestic production, consumption, key domestic manufacturers and share

Global Remote Real-time Particle Monitors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Remote Real-time Particle Monitors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Remote Real-time Particle Monitors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Remote Real-time Particle 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 Scientific (NYSE: TMO, USA), TSI Incorporated (Private, USA), Teledyne Technologies (NYSE: TDY, USA), Horiba (TYO: 6856, Japan), Siemens (ETR: SIE, Germany), Emerson Electric (NYSE: EMR, USA), Honeywell (NASDAQ: HON, USA), ABB (SIX: ABBN, Switzerland), TSI Group (AeroTrak/DustTrak) (Private, USA), IQAir (Private, Switzerland), 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 Remote Real-time Particle 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 Remote Real-time Particle Monitors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Remote Real-time Particle Monitors Market, Segmentation by Type:

Portable / Handheld Monitors

Fixed Monitors

Global Remote Real-time Particle Monitors Market, Segmentation by Particle Size Detection:

PM1

PM2.5

PM10

Multi-channel (PM1 / PM2.5 / PM10 / TSP)

Global Remote Real-time Particle Monitors Market, Segmentation by Connectivity:

Bluetooth

WiFi

Cellular (4G/5G/NB-IoT)

LoRa / LPWAN

Global Remote Real-time Particle Monitors Market, Segmentation by Application:

Government & Environmental Agencies

Industrial Enterprises

Commercial Facilities

Individual Consumers

Companies Profiled:

Thermo Fisher Scientific (NYSE: TMO, USA)

TSI Incorporated (Private, USA)

Teledyne Technologies (NYSE: TDY, USA)

Horiba (TYO: 6856, Japan)

Siemens (ETR: SIE, Germany)

Emerson Electric (NYSE: EMR, USA)

Honeywell (NASDAQ: HON, USA)

ABB (SIX: ABBN, Switzerland)

TSI Group (AeroTrak/DustTrak) (Private, USA)

IQAir (Private, Switzerland)

Aeroqual (Private, New Zealand)

PALAS (Private, Germany)

Grimm Aerosol Technik (Part of DURAG Group, Germany)

Suzhou Sujing Automation Instrument Equipment Co., Ltd. (Subsidiary of Sujing Group, China)

Focused Photonics Inc. (SZSE: 300203, China)

Hangzhou Zetian Technology Co., Ltd. (NEEQ: 430138, China)

SDL Technology Co., Ltd. (SZSE: 300515, China)

Key Questions Answered:

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

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