

Global Remote Real-time Particle Monitors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Remote Real-time Particle Monitors market size was valued at US\$ 2046 million in 2025 and is forecast to a readjusted size of US\$ 3515 million by 2032 with a CAGR of 8.0% during review period.

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 is a detailed and comprehensive analysis for global Remote Real-time

Particle Monitors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Remote Real-time Particle Monitors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Remote Real-time Particle Monitors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Remote Real-time Particle Monitors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Remote Real-time Particle Monitors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Remote Real-time Particle Monitors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Remote Real-time Particle Monitors market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Remote Real-time Particle Monitors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Portable / Handheld Monitors

Fixed Monitors

Market segment by Particle Size Detection

PM1

PM2.5

PM10

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

Market segment by Connectivity

Bluetooth

WiFi

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

LoRa / LPWAN

Market segment by Application

Government & Environmental Agencies

Industrial Enterprises

Commercial Facilities

Individual Consumers

Major players covered

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)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Remote Real-time Particle Monitors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Remote Real-time Particle Monitors, with price, sales quantity, revenue, and global market share of Remote Real-time Particle Monitors from 2021 to 2026.

Chapter 3, the Remote Real-time Particle Monitors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Remote Real-time Particle Monitors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Remote Real-time Particle Monitors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Remote Real-time Particle Monitors.

Chapter 14 and 15, to describe Remote Real-time Particle Monitors sales channel, distributors, customers, research findings and conclusion.

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