

Global Aerosol Particle Sensors Market Growth 2026-2032

<https://marketpublishers.com/r/G77E6B30EFDBEN.html>

Date: May 2026

Pages: 121

Price: US\$ 3,660.00 (Single User License)

ID: G77E6B30EFDBEN

Abstracts

The global Aerosol Particle Sensors market size is predicted to grow from US\$ 2130 million in 2025 to US\$ 4154 million in 2032; it is expected to grow at a CAGR of 10.1% from 2026 to 2032.

In 2025, global Aerosol Particle Sensors production reached approximately 4.4 million units, with an average global market price of around US\$ 500 per unit. Annual production capacity is 5.5 million units. Gross Profit Margin: 34%. Aerosol Particle Sensors are devices designed to detect, measure, and analyze airborne particles (aerosols) such as dust, smoke, pollen, droplets, and fine particulate matter (PM). The industry chain of aerosol particle sensors begins with suppliers of lasers, optical detectors, microelectronics, and housings, followed by manufacturers that design and assemble PM and aerosol sensing modules. These sensors are integrated into air quality monitors, HVAC systems, industrial safety equipment, and IoT platforms, and are finally delivered to end users such as environmental agencies, industries, healthcare facilities, and consumers, with calibration, software, and data analytics services supporting operation and accuracy. Aerosol particle sensors are increasingly essential tools for making invisible air pollution visible and actionable.

United States market for Aerosol Particle Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Aerosol Particle Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Aerosol Particle Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Aerosol Particle Sensors players cover Sensirion AG (SWX: SENS, Switzerland), Honeywell International Inc. (NASDAQ: HON, USA), Omron Corporation (TYO: 6645, Japan), Sharp Corporation (TYO: 6753, Japan), Bosch Sensortec GmbH (Private / Germany), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the 'Aerosol Particle Sensors Industry Forecast' looks at past sales and reviews total world Aerosol Particle Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Aerosol Particle Sensors sales for 2026 through 2032. With Aerosol Particle Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Aerosol Particle Sensors industry.

This Insight Report provides a comprehensive analysis of the global Aerosol Particle Sensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Aerosol Particle Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Aerosol Particle Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Aerosol Particle Sensors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Aerosol Particle Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Aerosol Particle Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Optical (Laser Scattering) Sensors

Electrical / Electrostatic Sensors

Condensation Particle Counters (CPC)

Spectrometers / Analyzers

Segmentation by Measurement Capability:

Mass Concentration Sensors

Number Concentration Sensors

Size Distribution Sensors

Multi-Parameter Sensors

Segmentation by Application:

Environmental Agencies and Governments

Industrial Facilities and Factories

Commercial Buildings and Smart Cities

Healthcare Institutions

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Sensirion AG (SWX: SENS, Switzerland)

Honeywell International Inc. (NASDAQ: HON, USA)

Omron Corporation (TYO: 6645, Japan)

Sharp Corporation (TYO: 6753, Japan)

Bosch Sensortec GmbH (Private / Germany)

Panasonic Holdings Corporation (TYO: 6752, Japan)

AMS-OSRAM AG (SIX: AMS, Austria/Germany)

Sensata Technologies Holding plc (NYSE: ST, USA)

Amphenol Advanced Sensors (NYSE: APH, USA)

Plantower Co., Ltd. (Private, China)

Shinyei Technology Co., Ltd. (Private, Japan)

Kanomax Japan Inc. (Private, Japan)

Thermo Fisher Scientific Inc. (NYSE: TMO, USA)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Aerosol Particle Sensors market?

What factors are driving Aerosol Particle Sensors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Aerosol Particle Sensors market opportunities vary by end market size?

How does Aerosol Particle Sensors break out by Type, by Application?

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