

Global Fine Dust Sensor Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G24DE35C3D14EN.html>

Date: February 2026

Pages: 146

Price: US\$ 4,480.00 (Single User License)

ID: G24DE35C3D14EN

Abstracts

The global Fine Dust Sensor market size is expected to reach \$ 6711 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032). In 2025, global Fine Dust Sensor production reached approximately 342.38 M Units. The average price is approximately \$11. Fine Dust Sensor are sensor devices used to detect the concentration of fine particulate matter in the air. Typical measurement targets include suspended particulate matter with particle sizes such as PM1, PM2.5, and PM10. They are widely used in air quality monitoring, indoor environmental control, and industrial dust management.

Gross Profit Margin Levels

The gross profit margins of fine dust sensors exhibit a clear stratification between 'modules vs. systems/instruments.' Consumer-grade embedded PM modules, influenced by price competition and channel transparency, typically have gross profit margins between 25% and 40%, depending on their differentiated capabilities in areas such as 'anti-pollution structure, algorithm compensation, low drift, and consistent delivery.' Online dust monitoring and particle counters for industrial/cleanroom/emission applications often incorporate higher reliability design, calibration/certification, engineering adaptation, and after-sales service, resulting in gross profit margins of 45%-60% or even higher. The industry as a whole (weighted by revenue) generally fluctuates between 35% and 55%. Upstream core components (lasers/optical cavities/fans/filters) and manufacturing yield determine the 'baseline,' while the true 'upper limit' is determined by the added value brought by calibration systems, long-term drift control, operational availability, and software-based features (data platforms/alarms/compliance reports).

Industry Drivers

The main driving force behind the growth of fine dust sensors is the convergence of three forces: increased awareness of health risks, regulatory compliance, and device

networking. On the one hand, rising global attention to air quality and indoor air quality (IAQ) is driving the standardization of PM sensors in air purifiers, HVAC systems, and automotive cabins. On the other hand, increasingly stringent requirements for particulate matter monitoring in industrial processes and emissions are propelling the particulate matter monitoring market to maintain double-digit medium-term growth and expanding demand for more reliable online dust sensing/counting. Simultaneously, the miniaturization, networking, and data platformization of IoT sensors are upgrading terminals from 'single-point readings' to 'multi-point networking + predictive maintenance + audit trails,' extending value from one-time hardware sales to ongoing software and maintenance services. The overall expansion of the air quality sensor market also provides a larger application environment and ecosystem for PM/dust sensors. This report studies the global Fine Dust Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fine Dust Sensor 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 Fine Dust Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fine Dust Sensor total production and demand, 2021-2032, (K Units)

Global Fine Dust Sensor total production value, 2021-2032, (USD Million)

Global Fine Dust Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Fine Dust Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Fine Dust Sensor domestic production, consumption, key domestic manufacturers and share

Global Fine Dust Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Fine Dust Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Fine Dust Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Fine Dust Sensor 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 Sensirion, Honeywell, Panasonic, Sharp, OMRON, Amphenol Advanced Sensors, Plantower, Zhengzhou Winsen, Nova Fitness, Cubic Sensor and Instrument, 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 Fine Dust Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Fine Dust Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fine Dust Sensor Market, Segmentation by Type:

Laser Scattering Type

Infrared Type

Others

Global Fine Dust Sensor Market, Segmentation by Particle Size Detection:

PM0.1 Dedicated Type

PM2.5 Dedicated Type

PM10 Dedicated Type

Multi-channel Composite Type

Global Fine Dust Sensor Market, Segmentation by Installation Method:

Embedded Modules

Portable Devices

Fixed Monitoring Instruments

Global Fine Dust Sensor Market, Segmentation by Application:

Environmental Monitoring

Smart Home

Industrial Manufacturing

Others

Companies Profiled:

Sensirion

Honeywell

Panasonic

Sharp

OMRON

Amphenol Advanced Sensors

Plantower

Zhengzhou Winsen

Nova Fitness

Cubic Sensor and Instrument

Shinyei Technology

Alphasense

TSI Incorporated

GRIMM Aerosol Technik

Palas GmbH

Kanomax

Vaisala

Aeroqual

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Fine Dust Sensor Introduction
- 1.2 World Fine Dust Sensor Supply & Forecast
 - 1.2.1 World Fine Dust Sensor Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Fine Dust Sensor Production (2021-2032)
 - 1.2.3 World Fine Dust Sensor Pricing Trends (2021-2032)
- 1.3 World Fine Dust Sensor Production by Region (Based on Production Site)
 - 1.3.1 World Fine Dust Sensor Production Value by Region (2021-2032)
 - 1.3.2 World Fine Dust Sensor Production by Region (2021-2032)
 - 1.3.3 World Fine Dust Sensor Average Price by Region (2021-2032)
 - 1.3.4 North America Fine Dust Sensor Production (2021-2032)
 - 1.3.5 Europe Fine Dust Sensor Production (2021-2032)
 - 1.3.6 China Fine Dust Sensor Production (2021-2032)
 - 1.3.7 Japan Fine Dust Sensor Production (2021-2032)
 - 1.3.8 South Korea Fine Dust Sensor Production (2021-2032)
 - 1.3.9 India Fine Dust Sensor Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Fine Dust Sensor Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Fine Dust Sensor Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Fine Dust Sensor Demand (2021-2032)
- 2.2 World Fine Dust Sensor Consumption by Region
 - 2.2.1 World Fine Dust Sensor Consumption by Region (2021-2026)
 - 2.2.2 World Fine Dust Sensor Consumption Forecast by Region (2027-2032)
- 2.3 United States Fine Dust Sensor Consumption (2021-2032)
- 2.4 China Fine Dust Sensor Consumption (2021-2032)
- 2.5 Europe Fine Dust Sensor Consumption (2021-2032)
- 2.6 Japan Fine Dust Sensor Consumption (2021-2032)
- 2.7 South Korea Fine Dust Sensor Consumption (2021-2032)
- 2.8 ASEAN Fine Dust Sensor Consumption (2021-2032)
- 2.9 India Fine Dust Sensor Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Fine Dust Sensor Production Value by Manufacturer (2021-2026)
- 3.2 World Fine Dust Sensor Production by Manufacturer (2021-2026)
- 3.3 World Fine Dust Sensor Average Price by Manufacturer (2021-2026)
- 3.4 Fine Dust Sensor Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Fine Dust Sensor Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Fine Dust Sensor in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Fine Dust Sensor in 2025
- 3.6 Fine Dust Sensor Market: Overall Company Footprint Analysis
 - 3.6.1 Fine Dust Sensor Market: Region Footprint
 - 3.6.2 Fine Dust Sensor Market: Company Product Type Footprint
 - 3.6.3 Fine Dust Sensor Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Fine Dust Sensor Production Value Comparison
 - 4.1.1 United States VS China: Fine Dust Sensor Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Fine Dust Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Fine Dust Sensor Production Comparison
 - 4.2.1 United States VS China: Fine Dust Sensor Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Fine Dust Sensor Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Fine Dust Sensor Consumption Comparison
 - 4.3.1 United States VS China: Fine Dust Sensor Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Fine Dust Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Fine Dust Sensor Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Fine Dust Sensor Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Fine Dust Sensor Production Value (2021-2026)

4.4.3 United States Based Manufacturers Fine Dust Sensor Production (2021-2026)
4.5 China Based Fine Dust Sensor Manufacturers and Market Share

4.5.1 China Based Fine Dust Sensor Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Fine Dust Sensor Production Value (2021-2026)

4.5.3 China Based Manufacturers Fine Dust Sensor Production (2021-2026)

4.6 Rest of World Based Fine Dust Sensor Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Fine Dust Sensor Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Fine Dust Sensor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Fine Dust Sensor Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Fine Dust Sensor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Laser Scattering Type

5.2.2 Infrared Type

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Fine Dust Sensor Production by Type (2021-2032)

5.3.2 World Fine Dust Sensor Production Value by Type (2021-2032)

5.3.3 World Fine Dust Sensor Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PARTICLE SIZE DETECTION

6.1 World Fine Dust Sensor Market Size Overview by Particle Size Detection: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Particle Size Detection

6.2.1 PM0.1 Dedicated Type

6.2.2 PM2.5 Dedicated Type

6.2.3 PM10 Dedicated Type

6.2.4 Multi-channel Composite Type

6.3 Market Segment by Particle Size Detection

6.3.1 World Fine Dust Sensor Production by Particle Size Detection (2021-2032)

6.3.2 World Fine Dust Sensor Production Value by Particle Size Detection (2021-2032)

6.3.3 World Fine Dust Sensor Average Price by Particle Size Detection (2021-2032)

7 MARKET ANALYSIS BY INSTALLATION METHOD

7.1 World Fine Dust Sensor Market Size Overview by Installation Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Installation Method

7.2.1 Embedded Modules

7.2.2 Portable Devices

7.2.3 Fixed Monitoring Instruments

7.3 Market Segment by Installation Method

7.3.1 World Fine Dust Sensor Production by Installation Method (2021-2032)

7.3.2 World Fine Dust Sensor Production Value by Installation Method (2021-2032)

7.3.3 World Fine Dust Sensor Average Price by Installation Method (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Fine Dust Sensor Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Environmental Monitoring

8.2.2 Smart Home

8.2.3 Industrial Manufacturing

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Fine Dust Sensor Production by Application (2021-2032)

8.3.2 World Fine Dust Sensor Production Value by Application (2021-2032)

8.3.3 World Fine Dust Sensor Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Sensirion

9.1.1 Sensirion Details

9.1.2 Sensirion Major Business

9.1.3 Sensirion Fine Dust Sensor Product and Services

9.1.4 Sensirion Fine Dust Sensor Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.1.5 Sensirion Recent Developments/Updates

9.1.6 Sensirion Competitive Strengths & Weaknesses

9.2 Honeywell

9.2.1 Honeywell Details

9.2.2 Honeywell Major Business

9.2.3 Honeywell Fine Dust Sensor Product and Services

9.2.4 Honeywell Fine Dust Sensor Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.2.5 Honeywell Recent Developments/Updates

9.2.6 Honeywell Competitive Strengths & Weaknesses

9.3 Panasonic

9.3.1 Panasonic Details

9.3.2 Panasonic Major Business

9.3.3 Panasonic Fine Dust Sensor Product and Services

9.3.4 Panasonic Fine Dust Sensor Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.3.5 Panasonic Recent Developments/Updates

9.3.6 Panasonic Competitive Strengths & Weaknesses

9.4 Sharp

9.4.1 Sharp Details

9.4.2 Sharp Major Business

9.4.3 Sharp Fine Dust Sensor Product and Services

9.4.4 Sharp Fine Dust Sensor Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.4.5 Sharp Recent Developments/Updates

9.4.6 Sharp Competitive Strengths & Weaknesses

9.5 OMRON

9.5.1 OMRON Details

9.5.2 OMRON Major Business

9.5.3 OMRON Fine Dust Sensor Product and Services

9.5.4 OMRON Fine Dust Sensor Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.5.5 OMRON Recent Developments/Updates

9.5.6 OMRON Competitive Strengths & Weaknesses

9.6 Amphenol Advanced Sensors

9.6.1 Amphenol Advanced Sensors Details

9.6.2 Amphenol Advanced Sensors Major Business

9.6.3 Amphenol Advanced Sensors Fine Dust Sensor Product and Services

- 9.6.4 Amphenol Advanced Sensors Fine Dust Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Amphenol Advanced Sensors Recent Developments/Updates
- 9.6.6 Amphenol Advanced Sensors Competitive Strengths & Weaknesses
- 9.7 Plantower
 - 9.7.1 Plantower Details
 - 9.7.2 Plantower Major Business
 - 9.7.3 Plantower Fine Dust Sensor Product and Services
 - 9.7.4 Plantower Fine Dust Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Plantower Recent Developments/Updates
 - 9.7.6 Plantower Competitive Strengths & Weaknesses
- 9.8 Zhengzhou Winsen
 - 9.8.1 Zhengzhou Winsen Details
 - 9.8.2 Zhengzhou Winsen Major Business
 - 9.8.3 Zhengzhou Winsen Fine Dust Sensor Product and Services
 - 9.8.4 Zhengzhou Winsen Fine Dust Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Zhengzhou Winsen Recent Developments/Updates
 - 9.8.6 Zhengzhou Winsen Competitive Strengths & Weaknesses
- 9.9 Nova Fitness
 - 9.9.1 Nova Fitness Details
 - 9.9.2 Nova Fitness Major Business
 - 9.9.3 Nova Fitness Fine Dust Sensor Product and Services
 - 9.9.4 Nova Fitness Fine Dust Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Nova Fitness Recent Developments/Updates
 - 9.9.6 Nova Fitness Competitive Strengths & Weaknesses
- 9.10 Cubic Sensor and Instrument
 - 9.10.1 Cubic Sensor and Instrument Details
 - 9.10.2 Cubic Sensor and Instrument Major Business
 - 9.10.3 Cubic Sensor and Instrument Fine Dust Sensor Product and Services
 - 9.10.4 Cubic Sensor and Instrument Fine Dust Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Cubic Sensor and Instrument Recent Developments/Updates
 - 9.10.6 Cubic Sensor and Instrument Competitive Strengths & Weaknesses
- 9.11 Shinyei Technology
 - 9.11.1 Shinyei Technology Details
 - 9.11.2 Shinyei Technology Major Business

- 9.11.3 Shinyei Technology Fine Dust Sensor Product and Services
- 9.11.4 Shinyei Technology Fine Dust Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Shinyei Technology Recent Developments/Updates
- 9.11.6 Shinyei Technology Competitive Strengths & Weaknesses
- 9.12 Alphasense
 - 9.12.1 Alphasense Details
 - 9.12.2 Alphasense Major Business
 - 9.12.3 Alphasense Fine Dust Sensor Product and Services
 - 9.12.4 Alphasense Fine Dust Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Alphasense Recent Developments/Updates
 - 9.12.6 Alphasense Competitive Strengths & Weaknesses
- 9.13 TSI Incorporated
 - 9.13.1 TSI Incorporated Details
 - 9.13.2 TSI Incorporated Major Business
 - 9.13.3 TSI Incorporated Fine Dust Sensor Product and Services
 - 9.13.4 TSI Incorporated Fine Dust Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 TSI Incorporated Recent Developments/Updates
 - 9.13.6 TSI Incorporated Competitive Strengths & Weaknesses
- 9.14 GRIMM Aerosol Technik
 - 9.14.1 GRIMM Aerosol Technik Details
 - 9.14.2 GRIMM Aerosol Technik Major Business
 - 9.14.3 GRIMM Aerosol Technik Fine Dust Sensor Product and Services
 - 9.14.4 GRIMM Aerosol Technik Fine Dust Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 GRIMM Aerosol Technik Recent Developments/Updates
 - 9.14.6 GRIMM Aerosol Technik Competitive Strengths & Weaknesses
- 9.15 Palas GmbH
 - 9.15.1 Palas GmbH Details
 - 9.15.2 Palas GmbH Major Business
 - 9.15.3 Palas GmbH Fine Dust Sensor Product and Services
 - 9.15.4 Palas GmbH Fine Dust Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Palas GmbH Recent Developments/Updates
 - 9.15.6 Palas GmbH Competitive Strengths & Weaknesses
- 9.16 Kanomax
 - 9.16.1 Kanomax Details

- 9.16.2 Kanomax Major Business
- 9.16.3 Kanomax Fine Dust Sensor Product and Services
- 9.16.4 Kanomax Fine Dust Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.16.5 Kanomax Recent Developments/Updates
- 9.16.6 Kanomax Competitive Strengths & Weaknesses
- 9.17 Vaisala
 - 9.17.1 Vaisala Details
 - 9.17.2 Vaisala Major Business
 - 9.17.3 Vaisala Fine Dust Sensor Product and Services
 - 9.17.4 Vaisala Fine Dust Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Vaisala Recent Developments/Updates
 - 9.17.6 Vaisala Competitive Strengths & Weaknesses
- 9.18 Aeroqual
 - 9.18.1 Aeroqual Details
 - 9.18.2 Aeroqual Major Business
 - 9.18.3 Aeroqual Fine Dust Sensor Product and Services
 - 9.18.4 Aeroqual Fine Dust Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Aeroqual Recent Developments/Updates
 - 9.18.6 Aeroqual Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Fine Dust Sensor Industry Chain
- 10.2 Fine Dust Sensor Upstream Analysis
 - 10.2.1 Fine Dust Sensor Core Raw Materials
 - 10.2.2 Main Manufacturers of Fine Dust Sensor Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Fine Dust Sensor Production Mode
- 10.6 Fine Dust Sensor Procurement Model
- 10.7 Fine Dust Sensor Industry Sales Model and Sales Channels
 - 10.7.1 Fine Dust Sensor Sales Model
 - 10.7.2 Fine Dust Sensor Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Fine Dust Sensor Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Fine Dust Sensor Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Fine Dust Sensor Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Fine Dust Sensor Production Value Market Share by Region (2021-2026)
- Table 5. World Fine Dust Sensor Production Value Market Share by Region (2027-2032)
- Table 6. World Fine Dust Sensor Production by Region (2021-2026) & (K Units)
- Table 7. World Fine Dust Sensor Production by Region (2027-2032) & (K Units)
- Table 8. World Fine Dust Sensor Production Market Share by Region (2021-2026)
- Table 9. World Fine Dust Sensor Production Market Share by Region (2027-2032)
- Table 10. World Fine Dust Sensor Average Price by Region (2021-2026) & (USD/Unit)
- Table 11. World Fine Dust Sensor Average Price by Region (2027-2032) & (USD/Unit)
- Table 12. Fine Dust Sensor Major Market Trends
- Table 13. World Fine Dust Sensor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Fine Dust Sensor Consumption by Region (2021-2026) & (K Units)
- Table 15. World Fine Dust Sensor Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Fine Dust Sensor Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Fine Dust Sensor Producers in 2025
- Table 18. World Fine Dust Sensor Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key Fine Dust Sensor Producers in 2025
- Table 20. World Fine Dust Sensor Average Price by Manufacturer (2021-2026) & (USD/Unit)
- Table 21. Global Fine Dust Sensor Company Evaluation Quadrant
- Table 22. World Fine Dust Sensor Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Fine Dust Sensor Production Site of Key Manufacturer
- Table 24. Fine Dust Sensor Market: Company Product Type Footprint
- Table 25. Fine Dust Sensor Market: Company Product Application Footprint

Table 26. Fine Dust Sensor Competitive Factors

Table 27. Fine Dust Sensor New Entrant and Capacity Expansion Plans

Table 28. Fine Dust Sensor Mergers & Acquisitions Activity

Table 29. United States VS China Fine Dust Sensor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Fine Dust Sensor Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Fine Dust Sensor Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Fine Dust Sensor Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Fine Dust Sensor Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Fine Dust Sensor Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Fine Dust Sensor Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Fine Dust Sensor Production Market Share (2021-2026)

Table 37. China Based Fine Dust Sensor Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Fine Dust Sensor Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Fine Dust Sensor Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Fine Dust Sensor Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Fine Dust Sensor Production Market Share (2021-2026)

Table 42. Rest of World Based Fine Dust Sensor Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Fine Dust Sensor Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Fine Dust Sensor Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Fine Dust Sensor Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Fine Dust Sensor Production Market Share (2021-2026)

Table 47. World Fine Dust Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Fine Dust Sensor Production by Type (2021-2026) & (K Units)

Table 49. World Fine Dust Sensor Production by Type (2027-2032) & (K Units)

Table 50. World Fine Dust Sensor Production Value by Type (2021-2026) & (USD Million)

Table 51. World Fine Dust Sensor Production Value by Type (2027-2032) & (USD Million)

Table 52. World Fine Dust Sensor Average Price by Type (2021-2026) & (USD/Unit)

Table 53. World Fine Dust Sensor Average Price by Type (2027-2032) & (USD/Unit)

Table 54. World Fine Dust Sensor Production Value by Particle Size Detection, (USD Million), 2021 & 2025 & 2032

Table 55. World Fine Dust Sensor Production by Particle Size Detection (2021-2026) & (K Units)

Table 56. World Fine Dust Sensor Production by Particle Size Detection (2027-2032) & (K Units)

Table 57. World Fine Dust Sensor Production Value by Particle Size Detection (2021-2026) & (USD Million)

Table 58. World Fine Dust Sensor Production Value by Particle Size Detection (2027-2032) & (USD Million)

Table 59. World Fine Dust Sensor Average Price by Particle Size Detection (2021-2026) & (USD/Unit)

Table 60. World Fine Dust Sensor Average Price by Particle Size Detection (2027-2032) & (USD/Unit)

Table 61. World Fine Dust Sensor Production Value by Installation Method, (USD Million), 2021 & 2025 & 2032

Table 62. World Fine Dust Sensor Production by Installation Method (2021-2026) & (K Units)

Table 63. World Fine Dust Sensor Production by Installation Method (2027-2032) & (K Units)

Table 64. World Fine Dust Sensor Production Value by Installation Method (2021-2026) & (USD Million)

Table 65. World Fine Dust Sensor Production Value by Installation Method (2027-2032) & (USD Million)

Table 66. World Fine Dust Sensor Average Price by Installation Method (2021-2026) & (USD/Unit)

Table 67. World Fine Dust Sensor Average Price by Installation Method (2027-2032) & (USD/Unit)

Table 68. World Fine Dust Sensor Production Value by Application, (USD Million), 2021

& 2025 & 2032

Table 69. World Fine Dust Sensor Production by Application (2021-2026) & (K Units)

Table 70. World Fine Dust Sensor Production by Application (2027-2032) & (K Units)

Table 71. World Fine Dust Sensor Production Value by Application (2021-2026) & (USD Million)

Table 72. World Fine Dust Sensor Production Value by Application (2027-2032) & (USD Million)

Table 73. World Fine Dust Sensor Average Price by Application (2021-2026) & (USD/Unit)

Table 74. World Fine Dust Sensor Average Price by Application (2027-2032) & (USD/Unit)

Table 75. Sensirion Basic Information, Manufacturing Base and Competitors

Table 76. Sensirion Major Business

Table 77. Sensirion Fine Dust Sensor Product and Services

Table 78. Sensirion Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Sensirion Recent Developments/Updates

Table 80. Sensirion Competitive Strengths & Weaknesses

Table 81. Honeywell Basic Information, Manufacturing Base and Competitors

Table 82. Honeywell Major Business

Table 83. Honeywell Fine Dust Sensor Product and Services

Table 84. Honeywell Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Honeywell Recent Developments/Updates

Table 86. Honeywell Competitive Strengths & Weaknesses

Table 87. Panasonic Basic Information, Manufacturing Base and Competitors

Table 88. Panasonic Major Business

Table 89. Panasonic Fine Dust Sensor Product and Services

Table 90. Panasonic Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Panasonic Recent Developments/Updates

Table 92. Panasonic Competitive Strengths & Weaknesses

Table 93. Sharp Basic Information, Manufacturing Base and Competitors

Table 94. Sharp Major Business

Table 95. Sharp Fine Dust Sensor Product and Services

Table 96. Sharp Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Sharp Recent Developments/Updates

Table 98. Sharp Competitive Strengths & Weaknesses

- Table 99. OMRON Basic Information, Manufacturing Base and Competitors
- Table 100. OMRON Major Business
- Table 101. OMRON Fine Dust Sensor Product and Services
- Table 102. OMRON Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. OMRON Recent Developments/Updates
- Table 104. OMRON Competitive Strengths & Weaknesses
- Table 105. Amphenol Advanced Sensors Basic Information, Manufacturing Base and Competitors
- Table 106. Amphenol Advanced Sensors Major Business
- Table 107. Amphenol Advanced Sensors Fine Dust Sensor Product and Services
- Table 108. Amphenol Advanced Sensors Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Amphenol Advanced Sensors Recent Developments/Updates
- Table 110. Amphenol Advanced Sensors Competitive Strengths & Weaknesses
- Table 111. Plantower Basic Information, Manufacturing Base and Competitors
- Table 112. Plantower Major Business
- Table 113. Plantower Fine Dust Sensor Product and Services
- Table 114. Plantower Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Plantower Recent Developments/Updates
- Table 116. Plantower Competitive Strengths & Weaknesses
- Table 117. Zhengzhou Winsen Basic Information, Manufacturing Base and Competitors
- Table 118. Zhengzhou Winsen Major Business
- Table 119. Zhengzhou Winsen Fine Dust Sensor Product and Services
- Table 120. Zhengzhou Winsen Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Zhengzhou Winsen Recent Developments/Updates
- Table 122. Zhengzhou Winsen Competitive Strengths & Weaknesses
- Table 123. Nova Fitness Basic Information, Manufacturing Base and Competitors
- Table 124. Nova Fitness Major Business
- Table 125. Nova Fitness Fine Dust Sensor Product and Services
- Table 126. Nova Fitness Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Nova Fitness Recent Developments/Updates
- Table 128. Nova Fitness Competitive Strengths & Weaknesses
- Table 129. Cubic Sensor and Instrument Basic Information, Manufacturing Base and

Competitors

Table 130. Cubic Sensor and Instrument Major Business

Table 131. Cubic Sensor and Instrument Fine Dust Sensor Product and Services

Table 132. Cubic Sensor and Instrument Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Cubic Sensor and Instrument Recent Developments/Updates

Table 134. Cubic Sensor and Instrument Competitive Strengths & Weaknesses

Table 135. Shinyei Technology Basic Information, Manufacturing Base and Competitors

Table 136. Shinyei Technology Major Business

Table 137. Shinyei Technology Fine Dust Sensor Product and Services

Table 138. Shinyei Technology Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Shinyei Technology Recent Developments/Updates

Table 140. Shinyei Technology Competitive Strengths & Weaknesses

Table 141. Alphasense Basic Information, Manufacturing Base and Competitors

Table 142. Alphasense Major Business

Table 143. Alphasense Fine Dust Sensor Product and Services

Table 144. Alphasense Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Alphasense Recent Developments/Updates

Table 146. Alphasense Competitive Strengths & Weaknesses

Table 147. TSI Incorporated Basic Information, Manufacturing Base and Competitors

Table 148. TSI Incorporated Major Business

Table 149. TSI Incorporated Fine Dust Sensor Product and Services

Table 150. TSI Incorporated Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. TSI Incorporated Recent Developments/Updates

Table 152. TSI Incorporated Competitive Strengths & Weaknesses

Table 153. GRIMM Aerosol Technik Basic Information, Manufacturing Base and Competitors

Table 154. GRIMM Aerosol Technik Major Business

Table 155. GRIMM Aerosol Technik Fine Dust Sensor Product and Services

Table 156. GRIMM Aerosol Technik Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. GRIMM Aerosol Technik Recent Developments/Updates

Table 158. GRIMM Aerosol Technik Competitive Strengths & Weaknesses

- Table 159. Palas GmbH Basic Information, Manufacturing Base and Competitors
- Table 160. Palas GmbH Major Business
- Table 161. Palas GmbH Fine Dust Sensor Product and Services
- Table 162. Palas GmbH Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. Palas GmbH Recent Developments/Updates
- Table 164. Palas GmbH Competitive Strengths & Weaknesses
- Table 165. Kanomax Basic Information, Manufacturing Base and Competitors
- Table 166. Kanomax Major Business
- Table 167. Kanomax Fine Dust Sensor Product and Services
- Table 168. Kanomax Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. Kanomax Recent Developments/Updates
- Table 170. Kanomax Competitive Strengths & Weaknesses
- Table 171. Vaisala Basic Information, Manufacturing Base and Competitors
- Table 172. Vaisala Major Business
- Table 173. Vaisala Fine Dust Sensor Product and Services
- Table 174. Vaisala Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Vaisala Recent Developments/Updates
- Table 176. Vaisala Competitive Strengths & Weaknesses
- Table 177. Aeroqual Basic Information, Manufacturing Base and Competitors
- Table 178. Aeroqual Major Business
- Table 179. Aeroqual Fine Dust Sensor Product and Services
- Table 180. Aeroqual Fine Dust Sensor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 181. Aeroqual Recent Developments/Updates
- Table 182. Aeroqual Competitive Strengths & Weaknesses
- Table 183. Global Key Players of Fine Dust Sensor Upstream (Raw Materials)
- Table 184. Global Fine Dust Sensor Typical Customers
- Table 185. Fine Dust Sensor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Fine Dust Sensor Picture

Figure 2. World Fine Dust Sensor Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Fine Dust Sensor Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Fine Dust Sensor Production (2021-2032) & (K Units)

Figure 5. World Fine Dust Sensor Average Price (2021-2032) & (USD/Unit)

Figure 6. World Fine Dust Sensor Production Value Market Share by Region (2021-2032)

Figure 7. World Fine Dust Sensor Production Market Share by Region (2021-2032)

Figure 8. North America Fine Dust Sensor Production (2021-2032) & (K Units)

Figure 9. Europe Fine Dust Sensor Production (2021-2032) & (K Units)

Figure 10. China Fine Dust Sensor Production (2021-2032) & (K Units)

Figure 11. Japan Fine Dust Sensor Production (2021-2032) & (K Units)

Figure 12. South Korea Fine Dust Sensor Production (2021-2032) & (K Units)

Figure 13. India Fine Dust Sensor Production (2021-2032) & (K Units)

Figure 14. Fine Dust Sensor Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Fine Dust Sensor Consumption (2021-2032) & (K Units)

Figure 17. World Fine Dust Sensor Consumption Market Share by Region (2021-2032)

Figure 18. United States Fine Dust Sensor Consumption (2021-2032) & (K Units)

Figure 19. China Fine Dust Sensor Consumption (2021-2032) & (K Units)

Figure 20. Europe Fine Dust Sensor Consumption (2021-2032) & (K Units)

Figure 21. Japan Fine Dust Sensor Consumption (2021-2032) & (K Units)

Figure 22. South Korea Fine Dust Sensor Consumption (2021-2032) & (K Units)

Figure 23. ASEAN Fine Dust Sensor Consumption (2021-2032) & (K Units)

Figure 24. India Fine Dust Sensor Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of Fine Dust Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Fine Dust Sensor Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Fine Dust Sensor Markets in 2025

Figure 28. United States VS China: Fine Dust Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Fine Dust Sensor Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Fine Dust Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Fine Dust Sensor Production Market Share 2025

Figure 32. China Based Manufacturers Fine Dust Sensor Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Fine Dust Sensor Production Market Share 2025

Figure 34. World Fine Dust Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Fine Dust Sensor Production Value Market Share by Type in 2025

Figure 36. Laser Scattering Type

Figure 37. Infrared Type

Figure 38. Others

Figure 39. World Fine Dust Sensor Production Market Share by Type (2021-2032)

Figure 40. World Fine Dust Sensor Production Value Market Share by Type (2021-2032)

Figure 41. World Fine Dust Sensor Average Price by Type (2021-2032) & (USD/Unit)

Figure 42. World Fine Dust Sensor Production Value by Particle Size Detection, (USD Million), 2021 & 2025 & 2032

Figure 43. World Fine Dust Sensor Production Value Market Share by Particle Size Detection in 2025

Figure 44. PM0.1 Dedicated Type

Figure 45. PM2.5 Dedicated Type

Figure 46. PM10 Dedicated Type

Figure 47. Multi-channel Composite Type

Figure 48. World Fine Dust Sensor Production Market Share by Particle Size Detection (2021-2032)

Figure 49. World Fine Dust Sensor Production Value Market Share by Particle Size Detection (2021-2032)

Figure 50. World Fine Dust Sensor Average Price by Particle Size Detection (2021-2032) & (USD/Unit)

Figure 51. World Fine Dust Sensor Production Value by Installation Method, (USD Million), 2021 & 2025 & 2032

Figure 52. World Fine Dust Sensor Production Value Market Share by Installation Method in 2025

Figure 53. Embedded Modules

Figure 54. Portable Devices

Figure 55. Fixed Monitoring Instruments

Figure 56. World Fine Dust Sensor Production Market Share by Installation Method (2021-2032)

Figure 57. World Fine Dust Sensor Production Value Market Share by Installation Method (2021-2032)

Figure 58. World Fine Dust Sensor Average Price by Installation Method (2021-2032) & (USD/Unit)

Figure 59. World Fine Dust Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Fine Dust Sensor Production Value Market Share by Application in 2025

Figure 61. Environmental Monitoring

Figure 62. Smart Home

Figure 63. Industrial Manufacturing

Figure 64. Others

Figure 65. World Fine Dust Sensor Production Market Share by Application (2021-2032)

Figure 66. World Fine Dust Sensor Production Value Market Share by Application (2021-2032)

Figure 67. World Fine Dust Sensor Average Price by Application (2021-2032) & (USD/Unit)

Figure 68. Fine Dust Sensor Industry Chain

Figure 69. Fine Dust Sensor Procurement Model

Figure 70. Fine Dust Sensor Sales Model

Figure 71. Fine Dust Sensor Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

I would like to order

Product name: Global Fine Dust Sensor Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G24DE35C3D14EN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G24DE35C3D14EN.html>