

Global PM2.5 Sensor Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global PM2.5 Sensor market size will reach 461.70 Million USD in 2025 and is projected to reach 767.48 Million USD by 2032, with a CAGR of 7.53% (2025-2032). Notably, the China PM2.5 Sensor market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A PM2.5 sensor is a compact electronic device designed to measure and monitor the concentration of particulate matter with a diameter of 2.5 micrometers or smaller in the air. PM2.5 sensors play a crucial role in assessing air quality, especially in urban and industrial areas where fine particulate pollution can have significant health implications. These sensors typically employ optical, laser, or light-scattering techniques to detect and quantify the concentration of fine particles present in the air. PM2.5 sensors are widely used in environmental monitoring systems, portable air quality monitors, and IoT (Internet of Things) devices to provide real-time data on air pollution levels. The information generated by PM2.5 sensors is valuable for both researchers and the general public, enabling informed decisions and interventions to mitigate the impact of particulate matter on respiratory health and overall air quality.

The major global manufacturers of PM2.5 Sensor include Sensirion, Amphenol Advanced Sensors, Sharp, Cubic Sensor and Instrument, Paragon, Honeywell, Panasonic, Plantower Technology, Shinyei Group, Luftmy Intelligence Technology,

Winsen, Prodrive Technologies, Nova Technology, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of PM2.5 Sensor. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global PM2.5 Sensor market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the PM2.5 Sensor market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of PM2.5 Sensor industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of PM2.5 Sensor Include:

Sensirion

Amphenol Advanced Sensors

Sharp

Cubic Sensor and Instrument

Paragon

Honeywell

Panasonic

Plantower Technology

Shinyei Group

Luftmy Intelligence Technology

Winsen

Prodrive Technologies

Nova Technology

PM2.5 Sensor Product Segment Include:

Laser Sensor

Infrared Sensor

PM2.5 Sensor Product Application Include:

Home Appliance

Automotive

Environmental Monitoring

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global PM2.5 Sensor Industry PESTEL Analysis

Chapter 3: Global PM2.5 Sensor Industry Porter's Five Forces Analysis

Chapter 4: Global PM2.5 Sensor Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

Chapter 5: Global PM2.5 Sensor Market Size and Forecast by Type and Application Analysis

Chapter 6: North America PM2.5 Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 7: Europe PM2.5 Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 8: China PM2.5 Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 9: APAC (Excl. China) PM2.5 Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 10: Latin America PM2.5 Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 11: Middle East and Africa PM2.5 Sensor Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 12: Global PM2.5 Sensor Competitive Analysis of Key Manufacturers (Sales, Revenue, Market Share, Price, Regional Distribution and Industry Concentration)

Chapter 13: Key Company Profiles (Product Portfolio, Sales, Revenue, Price and Gross Margin)

Chapter 14: Industrial Chain Analysis, Include Raw Material Suppliers, Distributors and Customers

Chapter 15: Research Findings and Conclusion

Chapter 16: Methodology and Data Sources

Contents

1 PM2.5 SENSOR MARKET OVERVIEW

- 1.1 Product Definition and Statistical Scope
- 1.2 PM2.5 Sensor Product by Type
 - 1.2.1 Laser Sensor
 - 1.2.2 Infrared Sensor
- 1.3 PM2.5 Sensor Product by Application
 - 1.3.1 Home Appliance
 - 1.3.2 Automotive
 - 1.3.3 Environmental Monitoring
 - 1.3.4 Others
- 1.4 Global PM2.5 Sensor Market Revenue and Sales Analysis
 - 1.4.1 Global PM2.5 Sensor Revenue Market Size Analysis (2020-2032)
 - 1.4.2 Global PM2.5 Sensor Sales Market Size Analysis (2020-2032)
 - 1.4.3 Global PM2.5 Sensor Market Sales Price Trend Analysis (2020-2032)
- 1.5 PM2.5 Sensor Industry Trends and Innovation
 - 1.5.1 PM2.5 Sensor Industry Trends and Innovation
 - 1.5.2 PM2.5 Sensor Market Drivers and Challenges

2 PM2.5 SENSOR MARKET PESTEL ANALYSIS

- 2.1 Political Factors Analysis
- 2.2 Economic Factors Analysis
- 2.3 Social Factors Analysis
- 2.4 Technological Factors Analysis
- 2.5 Environmental Factors Analysis
- 2.6 Legal Factors Analysis

3 PM2.5 SENSOR MARKET PORTER'S FIVE FORCES ANALYSIS

- 3.1 Competitive Rivalry
- 3.2 Threat of New Entrants
- 3.3 Bargaining Power of Suppliers
- 3.4 Bargaining Power of Buyers
- 3.5 Threat of Substitutes

4 GLOBAL PM2.5 SENSOR MARKET ANALYSIS BY REGIONS

- 4.1 Global PM2.5 Sensor Overall Market: 2024 VS 2025 VS 2032
- 4.2 Global PM2.5 Sensor Revenue and Forecast Analysis (2020-2032)
 - 4.2.1 Global PM2.5 Sensor Revenue and Market Share by Region (2020-2025)
 - 4.2.2 Global PM2.5 Sensor Revenue and Market Share Forecast by Region (2026-2032)
- 4.3 Global PM2.5 Sensor Sales and Forecast Analysis (2020-2032)
 - 4.3.1 Global PM2.5 Sensor Sales and Market Share by Region (2020-2025)
 - 4.3.2 Global PM2.5 Sensor Sales and Market Share Forecast by Region (2026-2032)
- 4.4 Global PM2.5 Sensor Sales Price Trend Analysis (2020-2032)

5 GLOBAL PM2.5 SENSOR MARKET SIZE BY TYPE AND APPLICATION

- 5.1 Global PM2.5 Sensor Market Size by Type
 - 5.1.1 Global PM2.5 Sensor Revenue and Forecast Analysis by Type (2020-2032)
 - 5.1.2 Global PM2.5 Sensor Sales and Forecast Analysis by Type (2020-2032)
- 5.2 Global PM2.5 Sensor Market Size by Application
 - 5.2.1 Global PM2.5 Sensor Revenue and Forecast Analysis by Application (2020-2032)
 - 5.2.2 Global PM2.5 Sensor Sales and Forecast Analysis by Application (2020-2032)

6 NORTH AMERICA

- 6.1 North America PM2.5 Sensor Market Size and Growth Rate Analysis (2020-2032)
- 6.2 North America Key Manufacturers Analysis
- 6.3 North America PM2.5 Sensor Market Size by Type
 - 6.3.1 North America PM2.5 Sensor Sales by Type (2020-2032)
 - 6.3.2 North America PM2.5 Sensor Revenue by Type (2020-2032)
- 6.4 North America PM2.5 Sensor Market Size by Application
 - 6.4.1 North America PM2.5 Sensor Sales by Application (2020-2032)
 - 6.4.2 North America PM2.5 Sensor Revenue by Application (2020-2032)
- 6.5 North America PM2.5 Sensor Market Size by Country
 - 6.5.1 US
 - 6.5.2 Canada

7 EUROPE

- 7.1 Europe PM2.5 Sensor Market Size and Growth Rate Analysis (2020-2032)
- 7.2 Europe Key Manufacturers Analysis

7.3 Europe PM2.5 Sensor Market Size by Type

7.3.1 Europe PM2.5 Sensor Sales by Type (2020-2032)

7.3.2 Europe PM2.5 Sensor Revenue by Type (2020-2032)

7.4 Europe PM2.5 Sensor Market Size by Application

7.4.1 Europe PM2.5 Sensor Sales by Application (2020-2032)

7.4.2 Europe PM2.5 Sensor Revenue by Application (2020-2032)

7.5 Europe PM2.5 Sensor Market Size by Country

7.5.1 Germany

7.5.2 France

7.5.3 United Kingdom

7.5.4 Italy

7.5.5 Spain

7.5.6 Benelux

8 CHINA

8.1 China PM2.5 Sensor Market Size and Growth Rate Analysis (2020-2032)

8.2 China Key Manufacturers Analysis

8.3 China PM2.5 Sensor Market Size by Type

8.3.1 China PM2.5 Sensor Sales by Type (2020-2032)

8.3.2 China PM2.5 Sensor Revenue by Type (2020-2032)

8.4 China PM2.5 Sensor Market Size by Application

8.4.1 China PM2.5 Sensor Sales by Application (2020-2032)

8.4.2 China PM2.5 Sensor Revenue by Application (2020-2032)

9 APAC (EXCL. CHINA)

9.1 APAC (excl. China) PM2.5 Sensor Market Size and Growth Rate Analysis (2020-2032)

9.2 APAC (excl. China) Key Manufacturers Analysis

9.3 APAC (excl. China) PM2.5 Sensor Market Size by Type

9.3.1 APAC (excl. China) PM2.5 Sensor Sales by Type (2020-2032)

9.3.2 APAC (excl. China) PM2.5 Sensor Revenue by Type (2020-2032)

9.4 APAC (excl. China) PM2.5 Sensor Market Size by Application

9.4.1 APAC (excl. China) PM2.5 Sensor Sales by Application (2020-2032)

9.4.2 APAC (excl. China) PM2.5 Sensor Revenue by Application (2020-2032)

9.5 APAC (excl. China) PM2.5 Sensor Market Size by Country

9.5.1 Japan

9.5.2 South Korea

- 9.5.3 India
- 9.5.4 Australia
- 9.5.5 Southeast Asia

10 LATIN AMERICA

- 10.1 Latin America PM2.5 Sensor Market Size and Growth Rate Analysis (2020-2032)
- 10.2 Latin America Key Manufacturers Analysis
- 10.3 Latin America PM2.5 Sensor Market Size by Type
 - 10.3.1 Latin America PM2.5 Sensor Sales by Type (2020-2032)
 - 10.3.2 Latin America PM2.5 Sensor Revenue by Type (2020-2032)
- 10.4 Latin America PM2.5 Sensor Market Size by Application
 - 10.4.1 Latin America PM2.5 Sensor Sales by Application (2020-2032)
 - 10.4.2 Latin America PM2.5 Sensor Revenue by Application (2020-2032)
- 10.5 Latin America PM2.5 Sensor Market Size by Country
- 10.6 Latin America PM2.5 Sensor Market Size by Country
 - 10.6.1 Mexico
 - 10.6.2 Brazil

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa PM2.5 Sensor Market Size and Growth Rate Analysis (2020-2032)
- 11.2 Middle East & Africa Key Manufacturers Analysis
- 11.3 Middle East & Africa PM2.5 Sensor Market Size by Type
 - 11.3.1 Middle East & Africa PM2.5 Sensor Sales by Type (2020-2032)
 - 11.3.2 Middle East & Africa PM2.5 Sensor Revenue by Type (2020-2032)
- 11.4 Middle East & Africa PM2.5 Sensor Market Size by Application
 - 11.4.1 Middle East & Africa PM2.5 Sensor Sales by Application (2020-2032)
 - 11.4.2 Middle East & Africa PM2.5 Sensor Revenue by Application (2020-2032)
- 11.5 Middle East PM2.5 Sensor Market Size by Country
 - 11.5.1 Saudi Arabia
 - 11.5.2 South Africa

12 COMPETITION BY MANUFACTURERS

- 12.1 Global PM2.5 Sensor Market Sales, Revenue and Price by Key Manufacturers (2021-2025)
 - 12.1.1 Global PM2.5 Sensor Market Sales by Key Manufacturers (2021-2025)

- 12.1.2 Global PM2.5 Sensor Market Revenue by Key Manufacturers (2021-2025)
- 12.1.3 Global PM2.5 Sensor Average Sales Price by Manufacturers (2021-2025)
- 12.2 PM2.5 Sensor Competitive Landscape Analysis and Market Dynamic
 - 12.2.1 PM2.5 Sensor Competitive Landscape Analysis
 - 12.2.2 Global Key Manufacturers Headquarter Location and Key Area Sales
 - 12.2.3 Market Dynamic

13 KEY COMPANIES ANALYSIS

13.1 Sensirion

13.1.1 Sensirion Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.1.2 Sensirion PM2.5 Sensor Product Portfolio

13.1.3 Sensirion PM2.5 Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.2 Amphenol Advanced Sensors

13.2.1 Amphenol Advanced Sensors Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.2.2 Amphenol Advanced Sensors PM2.5 Sensor Product Portfolio

13.2.3 Amphenol Advanced Sensors PM2.5 Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.3 Sharp

13.3.1 Sharp Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.3.2 Sharp PM2.5 Sensor Product Portfolio

13.3.3 Sharp PM2.5 Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.4 Cubic Sensor and Instrument

13.4.1 Cubic Sensor and Instrument Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.4.2 Cubic Sensor and Instrument PM2.5 Sensor Product Portfolio

13.4.3 Cubic Sensor and Instrument PM2.5 Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.5 Paragon

13.5.1 Paragon Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.5.2 Paragon PM2.5 Sensor Product Portfolio

13.5.3 Paragon PM2.5 Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.6 Honeywell

13.6.1 Honeywell Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.6.2 Honeywell PM2.5 Sensor Product Portfolio

13.6.3 Honeywell PM2.5 Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.7 Panasonic

13.7.1 Panasonic Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.7.2 Panasonic PM2.5 Sensor Product Portfolio

13.7.3 Panasonic PM2.5 Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.8 Plantower Technology

13.8.1 Plantower Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.8.2 Plantower Technology PM2.5 Sensor Product Portfolio

13.8.3 Plantower Technology PM2.5 Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.9 Shinyei Group

13.9.1 Shinyei Group Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.9.2 Shinyei Group PM2.5 Sensor Product Portfolio

13.9.3 Shinyei Group PM2.5 Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.10 Luftmy Intelligence Technology

13.10.1 Luftmy Intelligence Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.10.2 Luftmy Intelligence Technology PM2.5 Sensor Product Portfolio

13.10.3 Luftmy Intelligence Technology PM2.5 Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.11 Winsen

13.11.1 Winsen Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.11.2 Winsen PM2.5 Sensor Product Portfolio

13.11.3 Winsen PM2.5 Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.12 Prodrive Technologies

13.12.1 Prodrive Technologies Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

- 13.12.2 Prodrive Technologies PM2.5 Sensor Product Portfolio
- 13.12.3 Prodrive Technologies PM2.5 Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)
- 13.13 Nova Technology
 - 13.13.1 Nova Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
 - 13.13.2 Nova Technology PM2.5 Sensor Product Portfolio
 - 13.13.3 Nova Technology PM2.5 Sensor Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14 INDUSTRY CHAIN ANALYSIS

- 14.1 PM2.5 Sensor Industry Chain Analysis
- 14.2 PM2.5 Sensor Industry Raw Material and Suppliers Analysis
 - 14.2.1 PM2.5 Sensor Key Raw Material Supply Analysis
 - 14.2.2 Raw Material Suppliers and Contact Information
- 14.3 PM2.5 Sensor Typical Downstream Customers
- 14.4 PM2.5 Sensor Sales Channel Analysis

15 RESEARCH FINDINGS AND CONCLUSION

16 METHODOLOGY AND DATA SOURCE

- 16.1 Methodology/Research Approach
- 16.2 Research Scope
- 16.3 Benchmarks and Assumptions
- 16.4 Data Source
 - 16.4.1 Primary Sources
 - 16.4.2 Secondary Sources
- 16.5 Data Cross Validation
- 16.6 Disclaimer

List Of Tables

LIST OF TABLES

Table 1: Global PM2.5 Sensor Market Size Growth Rate by Type, 2024 VS 2025 VS 2032 (US\$ Million)

Table 2: Global PM2.5 Sensor Market Size Growth Rate by Application, 2024 VS 2025 VS 2032 (US\$ Million)

Table 3: PM2.5 Sensor Industry Development Status

Table 4: PM2.5 Sensor Industry Development Trends

Table 5: Global PM2.5 Sensor Market Size by Region in US\$ Million: 2024 VS 2025 VS 2032

Table 6: Global PM2.5 Sensor Revenue by Region (2020-2025) & (US\$ Million)

Table 7: Global PM2.5 Sensor Revenue Market Share by Region (2020-2025)

Table 8: Global PM2.5 Sensor Revenue Forecast by Region (2026-2032) & (US\$ Million)

Table 9: Global PM2.5 Sensor Revenue Market Share Forecast by Region (2026-2032)

Table 10: Global PM2.5 Sensor Sales by Region (2020-2025) & (K Unit)

Table 11: Global PM2.5 Sensor Sales Market Share by Region (2020-2025)

Table 12: Global PM2.5 Sensor Sales Forecast by Region (2026-2032) & (K Unit)

Table 13: Global PM2.5 Sensor Sales Market Share Forecast by Region (2026-2032)

Table 14: Global PM2.5 Sensor Revenue Analysis by Type (2020-2025) & (US\$ Million)

Table 15: Global PM2.5 Sensor Revenue Analysis Forecast by Type (2026-2032) & (US\$ Million)

Table 16: Global PM2.5 Sensor Sales Analysis by Type (2020-2025) & (K Unit)

Table 17: Global PM2.5 Sensor Sales Analysis Forecast by Type (2026-2032) & (K Unit)

Table 18: Global PM2.5 Sensor Revenue Analysis by Application (2020-2025) & (US\$ Million)

Table 19: Global PM2.5 Sensor Revenue Analysis Forecast by Application (2026-2032) & (US\$ Million)

Table 20: Global PM2.5 Sensor Sales Analysis by Application (2020-2025) & (K Unit)

Table 21: Global PM2.5 Sensor Sales Analysis Forecast by Application (2026-2032) & (K Unit)

Table 22: Key PM2.5 Sensor Players in North America

Table 23: North America PM2.5 Sensor Sales by Type (2020-2025) & (K Unit)

Table 24: North America PM2.5 Sensor Sales by Type (2026-2032) & (K Unit)

Table 25: North America PM2.5 Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 26: North America PM2.5 Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 27: North America PM2.5 Sensor Sales by Application (2020-2025) & (K Unit)

Table 28: North America PM2.5 Sensor Sales by Application (2026-2032) & (K Unit)

Table 29: North America PM2.5 Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 30: North America PM2.5 Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 31: North America PM2.5 Sensor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 32: North America PM2.5 Sensor Revenue Market Size by Country (2026-2032) & (US\$ Million)

Table 33: North America PM2.5 Sensor Sales Market Size by Country (2020-2025) & (K Unit)

Table 34: North America PM2.5 Sensor Sales Market Size by Country (2026-2032) & (K Unit)

Table 35: Key PM2.5 Sensor Players in Europe

Table 36: Europe PM2.5 Sensor Sales by Type (2020-2025) & (K Unit)

Table 37: Europe PM2.5 Sensor Sales by Type (2026-2032) & (K Unit)

Table 38: Europe PM2.5 Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 39: Europe PM2.5 Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 40: Europe PM2.5 Sensor Sales by Application (2020-2025) & (K Unit)

Table 41: Europe PM2.5 Sensor Sales by Application (2026-2032) & (K Unit)

Table 42: Europe PM2.5 Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 43: Europe PM2.5 Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 44: Europe PM2.5 Sensor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 45: Europe PM2.5 Sensor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 46: Europe PM2.5 Sensor Sales Market Size by Country (2020-2025) & (K Unit)

Table 47: Europe PM2.5 Sensor Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 48: Key PM2.5 Sensor Players in China

Table 49: China PM2.5 Sensor Sales by Type (2020-2025) & (K Unit)

Table 50: China PM2.5 Sensor Sales by Type (2026-2032) & (K Unit)

Table 51: China PM2.5 Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 52: China PM2.5 Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 53: China PM2.5 Sensor Sales by Application (2020-2025) & (K Unit)

Table 54: China PM2.5 Sensor Sales by Application (2026-2032) & (K Unit)

Table 55: China PM2.5 Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 56: China PM2.5 Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 57: Key PM2.5 Sensor Players in APAC (excl. China)

Table 58: APAC (excl. China) PM2.5 Sensor Sales by Type (2020-2025) & (K Unit)

Table 59: APAC (excl. China) PM2.5 Sensor Sales by Type (2026-2032) & (K Unit)

Table 60: APAC (excl. China) PM2.5 Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 61: APAC (excl. China) PM2.5 Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 62: APAC (excl. China) PM2.5 Sensor Sales by Application (2020-2025) & (K Unit)

Table 63: APAC (excl. China) PM2.5 Sensor Sales by Application (2026-2032) & (K Unit)

Table 64: APAC (excl. China) PM2.5 Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 65: APAC (excl. China) PM2.5 Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 66:: APAC (excl. China) PM2.5 Sensor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 67: APAC (excl. China) PM2.5 Sensor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 68: APAC (excl. China) PM2.5 Sensor Sales Market Size by Country (2020-2025) & (K Unit)

Table 69: APAC (excl. China) PM2.5 Sensor Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 70: Key PM2.5 Sensor Players in Latin America

Table 71: Latin America PM2.5 Sensor Sales by Type (2020-2025) & (K Unit)

Table 72: Latin America PM2.5 Sensor Sales by Type (2026-2032) & (K Unit)

Table 73: Latin America PM2.5 Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 74: Latin America PM2.5 Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 75: Latin America PM2.5 Sensor Sales by Application (2020-2025) & (K Unit)

Table 76: Latin America PM2.5 Sensor Sales by Application (2026-2032) & (K Unit)

Table 77: Latin America PM2.5 Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 78: Latin America PM2.5 Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 79: Latin America PM2.5 Sensor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 80: Latin America PM2.5 Sensor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 81: Latin America PM2.5 Sensor Sales Market Size by Country (2020-2025) & (K

Unit)

Table 82: Latin America PM2.5 Sensor Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 83: Key PM2.5 Sensor Players in Middle East & Africa

Table 84: Middle East & Africa PM2.5 Sensor Sales by Type (2020-2025) & (K Unit)

Table 85: Middle East & Africa PM2.5 Sensor Sales by Type (2026-2032) & (K Unit)

Table 86: Middle East & Africa PM2.5 Sensor Revenue by Type (2020-2025) & (US\$ Million)

Table 87: Middle East & Africa PM2.5 Sensor Revenue by Type (2026-2032) & (US\$ Million)

Table 88: Middle East & Africa PM2.5 Sensor Sales by Application (2020-2025) & (K Unit)

Table 89: Middle East & Africa PM2.5 Sensor Sales by Application (2026-2032) & (K Unit)

Table 90: Middle East & Africa PM2.5 Sensor Revenue by Application (2020-2025) & (US\$ Million)

Table 91: Middle East & Africa PM2.5 Sensor Revenue by Application (2026-2032) & (US\$ Million)

Table 92: Middle East & Africa PM2.5 Sensor Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 93: Middle East & Africa PM2.5 Sensor Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 94: Middle East & Africa PM2.5 Sensor Sales Market Size by Country (2020-2025) & (K Unit)

Table 95: Middle East & Africa PM2.5 Sensor Sales Market Size Forecast by Country (2026-2032) & (K Unit)

Table 96: Global PM2.5 Sensor Market Sales by Key Manufacturers (2021-2025) & (K Unit)

Table 97: Global PM2.5 Sensor Sales Market Share by Key Manufacturers (2021-2025)

Table 98: Global PM2.5 Sensor Market Revenue by Key Manufacturers (2021-2025) & (US\$ Million)

Table 99: Global PM2.5 Sensor Revenue Market Share by Key Manufacturers (2021-2025)

Table 100: Global Average Sales Price by Manufacturers (2021-2025) & (USD/Unit)

Table 101: Global Key Manufacturers Headquarter Location and Key Area Sales

Table 102: Market Mergers & Acquisitions, Expansion

Table 103: Sensirion Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 104: Sensirion PM2.5 Sensor Product Portfolio

Table 105: Sensirion PM2.5 Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 106: Amphenol Advanced Sensors Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 107: Amphenol Advanced Sensors PM2.5 Sensor Product Portfolio

Table 108: Amphenol Advanced Sensors PM2.5 Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 109: Sharp Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 110: Sharp PM2.5 Sensor Product Portfolio

Table 111: Sharp PM2.5 Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 112: Cubic Sensor and Instrument Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 113: Cubic Sensor and Instrument PM2.5 Sensor Product Portfolio

Table 114: Cubic Sensor and Instrument PM2.5 Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 115: Paragon Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 116: Paragon PM2.5 Sensor Product Portfolio

Table 117: Paragon PM2.5 Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 118: Honeywell Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 119: Honeywell PM2.5 Sensor Product Portfolio

Table 120: Honeywell PM2.5 Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 121: Panasonic Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 122: Panasonic PM2.5 Sensor Product Portfolio

Table 123: Panasonic PM2.5 Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 124: Plantower Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 125: Plantower Technology PM2.5 Sensor Product Portfolio

Table 126: Plantower Technology PM2.5 Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 127: Shinyei Group Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 128: Shinyei Group PM2.5 Sensor Product Portfolio

Table 129: Shinyei Group PM2.5 Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 130: Luftmy Intelligence Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 131: Luftmy Intelligence Technology PM2.5 Sensor Product Portfolio

Table 132: Luftmy Intelligence Technology PM2.5 Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 133: Winsen Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 134: Winsen PM2.5 Sensor Product Portfolio

Table 135: Winsen PM2.5 Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 136: Prodrive Technologies Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 137: Prodrive Technologies PM2.5 Sensor Product Portfolio

Table 138: Prodrive Technologies PM2.5 Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 139: Nova Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 140: Nova Technology PM2.5 Sensor Product Portfolio

Table 141: Nova Technology PM2.5 Sensor Revenue (US\$ Million), Sales (K Unit), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 142: Upstream Key Raw Material Price List

Table 143: PM2.5 Sensor Raw Material Suppliers and Contact Information

Table 144: PM2.5 Sensor Typical Customer List

Table 145: PM2.5 Sensor Distributors List

List Of Figures

LIST OF FIGURES

Figure 1: PM2.5 Sensor Product Pictures

Figure 2: Laser Sensor Picture Scope

Figure 3: Infrared Sensor Picture Scope

Figure 4: Home Appliance Picture Scope

Figure 5: Automotive Picture Scope

Figure 6: Environmental Monitoring Picture Scope

Figure 7: Others Picture Scope

Figure 8: Global PM2.5 Sensor Market Size Analysis: 2024 VS 2025 VS 2032 (US\$ Million)

Figure 9: Global PM2.5 Sensor Market Revenue and Growth Rate Analysis: (2020-2032) & (US\$ Million)

Figure 10: Global PM2.5 Sensor Market Sales and Growth Rate Analysis (2020-2032) & (K Unit)

Figure 11: Global PM2.5 Sensor Market Price Trend Analysis (2020-2032) & (USD/Unit)

Figure 12: Global PM2.5 Sensor Market Size by Region (2020-2032) & (US\$ Million)

Figure 13: Global PM2.5 Sensor Market Share Scenario by Region in Percentage: 2025 Versus 2032

Figure 14: Global PM2.5 Sensor Sales Price by Region (2020-2032) & (K Unit)

Figure 15: North America PM2.5 Sensor Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 16: North America PM2.5 Sensor Revenue Market Share by Players in 2024

Figure 17: North America PM2.5 Sensor Sales Market Share by Type (2020-2032)

Figure 18: North America PM2.5 Sensor Revenue Market Share by Type (2020-2032)

Figure 19: North America PM2.5 Sensor Sales Market Share by Application (2020-2032)

Figure 20: North America PM2.5 Sensor Revenue Market Share by Application (2020-2032)

Figure 21: US PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)

Figure 22: Canada PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)

Figure 23: Europe PM2.5 Sensor Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 24: Europe PM2.5 Sensor Revenue Market Share by Players in 2024

Figure 25: Europe PM2.5 Sensor Sales Market Share by Type (2020-2032)

Figure 26: Europe PM2.5 Sensor Revenue Market Share by Type (2020-2032)

Figure 27: Europe PM2.5 Sensor Sales Market Share by Application (2020-2032)

Figure 28: Europe PM2.5 Sensor Revenue Market Share by Application (2020-2032)

- Figure 29:Germany PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 30:France PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 31:United Kingdom PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 32:Italy PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 33:Spain PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 34:Benelux PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 35:China PM2.5 Sensor Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 36:China PM2.5 Sensor Revenue Market Share by Players in 2024
- Figure 37:China PM2.5 Sensor Sales Market Share by Type (2020-2032)
- Figure 38:China PM2.5 Sensor Revenue Market Share by Type (2020-2032)
- Figure 39:China PM2.5 Sensor Sales Market Share by Application (2020-2032)
- Figure 40:China PM2.5 Sensor Revenue Market Share by Application (2020-2032)
- Figure 41:APAC (excl. China) PM2.5 Sensor Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 42:APAC (excl. China) PM2.5 Sensor Revenue Market Share by Players in 2024
- Figure 43:APAC (excl. China) PM2.5 Sensor Sales Market Share by Type (2020-2032)
- Figure 44:APAC (excl. China) PM2.5 Sensor Revenue Market Share by Type (2020-2032)
- Figure 45:APAC (excl. China) PM2.5 Sensor Sales Market Share by Application (2020-2032)
- Figure 46:APAC (excl. China) PM2.5 Sensor Revenue Market Share by Application (2020-2032)
- Figure 47:Japan PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 48:South Korea PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 49:India PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 50:Australia PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 51:Southeast Asia PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 52:Latin America PM2.5 Sensor Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 53:Latin America PM2.5 Sensor Revenue Market Share by Players in 2024
- Figure 54:Latin America PM2.5 Sensor Sales Market Share by Type (2020-2032)
- Figure 55:Latin America PM2.5 Sensor Revenue Market Share by Type (2020-2032)
- Figure 56:Latin America PM2.5 Sensor Sales Market Share by Application (2020-2032)
- Figure 57:Latin America PM2.5 Sensor Revenue Market Share by Application (2020-2032)
- Figure 58:Mexico PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 59:Brazil PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)
- Figure 60:Middle East & Africa PM2.5 Sensor Market Size and Growth Rate

(2020-2032) & (US\$ Million)

Figure 61: Middle East & Africa PM2.5 Sensor Revenue Market Share by Players in 2024

Figure 62: Middle East & Africa PM2.5 Sensor Sales Market Share by Type (2020-2032)

Figure 63: Middle East & Africa PM2.5 Sensor Revenue Market Share by Type (2020-2032)

Figure 64: Middle East & Africa PM2.5 Sensor Sales Market Share by Application (2020-2032)

Figure 65: Middle East & Africa PM2.5 Sensor Revenue Market Share by Application (2020-2032)

Figure 66: Saudi Arabia PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)

Figure 67: South Africa PM2.5 Sensor Revenue (2020-2032) & (US\$ Million)

Figure 68: Global PM2.5 Sensor Sales Market Share by Key Manufacturers in 2024

Figure 69: Global PM2.5 Sensor Revenue Market Share by Key Manufacturers in 2024

Figure 70: Global PM2.5 Sensor Industry Competition Landscape

Figure 71: PM2.5 Sensor Industry Chain Analysis

Figure 72: Bottom-Up and Top-Down Research Methods

Figure 73: Key Interview Objectives

Figure 74: Data Cross Validation

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