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Global Dust Concentration Sensor 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 Dust Concentration Sensor market size was valued at US$ 509 million in 2025 and is forecast to a readjusted size of US$ 722 million by 2032 with a CAGR of 5.2% during review period.

Dust concentration sensor is a detection device based on optical or electrical principles, capable of real-time monitoring of particulate matter concentrations in the air, and widely used in environmental monitoring and industrial control. In 2024, the production of dust concentration sensors was 3.15 million units, with an average price of 150 USD per unit. The dust concentration sensor industry chain upstream includes suppliers of optoelectronic devices, semiconductor chips, and sensing components, represented by Sharp, STMicroelectronics, and Omron; the midstream consists of sensor manufacturing and system integration; the downstream mainly applies to industrial and environmental monitoring, represented by Honeywell, Siemens, and Thermo Fisher. In 2024, the single-line annual production capacity was about 10,000 units, with an average gross profit margin of around 45%.

The market outlook for dust concentration sensors is highly positive, driven by increasing global requirements for environmental protection and occupational health, with growing demand. As industrial production undergoes intelligent upgrades and urban air quality management accelerates, the need for high-precision, low-power, and smart sensors continues to expand. In the coming years, these sensors will see widespread adoption in fields such as environmental protection, energy, construction, and transportation. Products are expected to evolve toward higher sensitivity, longer lifespan, and stronger data integration capabilities. The market is projected to maintain steady growth, attracting greater investment in technological development and

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application expansion.

This report is a detailed and comprehensive analysis for global Dust Concentration Sensor 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 Dust Concentration Sensor market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Dust Concentration Sensor 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 Dust Concentration Sensor 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 Dust Concentration Sensor 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 Dust Concentration Sensor

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

To assess competitive factors affecting the marketplace

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This report profiles key players in the global Dust Concentration Sensor 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 Sensirion, Paragon, Winsen, Panasonic, Shinyei Group, Amphenol Advanced Sensors, Cubic Sensor and Instrument, Plantower Technology, Prodrive Technologies, Luftmy Intelligence Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Dust Concentration Sensor 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

Laser Sensor

Infrared Sensor

Market segment by Application

Industrial

Environmental Monitoring

Others

Major players covered

Sensirion

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Paragon

Winsen

Panasonic

Shinyei Group

Amphenol Advanced Sensors

Cubic Sensor and Instrument

Plantower Technology

Prodrive Technologies

Luftmy Intelligence Technology

Nova Technology

Sharp

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)

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

Chapter 1, to describe Dust Concentration Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Dust Concentration Sensor, with price, sales quantity, revenue, and global market share of Dust Concentration Sensor from 2021 to 2026.

Chapter 3, the Dust Concentration Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Dust Concentration Sensor 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 Dust Concentration Sensor 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 Dust Concentration Sensor.

Chapter 14 and 15, to describe Dust Concentration Sensor sales channel, distributors, customers, research findings and conclusion.

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