

Global Online Oil Fume Monitoring 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 Online Oil Fume Monitoring Sensor market size was valued at US\$ 828 million in 2025 and is forecast to a readjusted size of US\$ 1351 million by 2032 with a CAGR of 7.3% during review period.

Online oil fume monitoring sensors are intelligent sensing devices used to monitor the concentration and emission status of oil fumes emitted from catering, industrial, and kitchen environments in real time. These sensors are typically based on light scattering, infrared absorption, or laser scattering principles, and can continuously collect data on oil fume particulate matter (PM), volatile organic compounds (VOCs), temperature, and humidity. The monitoring results are uploaded to a cloud platform via wireless communication modules (such as 4G/5G, NB-IoT, or LoRa). The system enables remote monitoring of oil fume emission concentration, purification equipment operating status, and abnormal alarms. It is widely used in catering oil fume treatment, environmental monitoring, smart cities, and industrial emission control, and is an important component of urban environmental monitoring and green regulatory systems. In 2025, sales reached 6.75 million units, with an average price of \$115, total production capacity of 7.5 million units, and a gross profit margin of 55%. Typically, one sensor is installed per restaurant.

The online fume monitoring sensor market is driven by both strengthened environmental regulations and the advancement of smart city construction. On the one hand, environmental protection departments across the country are implementing stricter requirements for online monitoring and data networking of catering fumes, industrial fumes, and atmospheric emissions, pushing fume sensors to transform from 'sampling-

type devices' to 'real-time online monitoring terminals.' The increasing demand for real-time data uploads, anomaly warnings, and remote management in scenarios such as catering establishments, commercial districts, and industrial parks has expanded the sensor market from its initial focus on single detection modules to 'dynamic pollutant sensing nodes' with networking capabilities, data communication capabilities, and remote configuration capabilities. This trend not only improves regulatory efficiency but also provides operators with more granular means of controlling fume emissions, contributing to the construction of a smart environmental protection system.

From a technological and competitive perspective, the online fume sensor market is evolving from 'single-indicator detection' to multi-parameter fusion and intelligent analysis. Traditional sensors primarily focus on particulate matter (PM) and cooking fume concentration, while future products will emphasize comprehensive analysis capabilities of VOCs, flue gas temperature and humidity, oil droplet size, and emission characteristics, while incorporating functions such as automatic calibration, self-diagnosis of faults, and remote maintenance. Furthermore, integration with cloud platforms, big data, and AI early warning systems will transform sensors from mere data acquisition terminals into crucial data sources for collaborative intelligent decision-making. This trend is driving manufacturers to invest in technologies that enhance sensing accuracy, stability, anti-interference capabilities, and system compatibility, thereby creating higher value-added overall solutions. The online cooking fume sensor market is expected to maintain steady growth against the backdrop of increasing government regulatory requirements and industrial digital transformation.

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

Global Online Oil Fume Monitoring 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 Online Oil Fume Monitoring 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 Online Oil Fume Monitoring 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 Online Oil Fume Monitoring Sensor

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 Online Oil Fume Monitoring 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 Madur, Testo, RAE Systems, IMR Environmental Equipment, Cerex Monitoring Solutions, LLC., MSA Safety, Enerac, LLC, Shandong Weimengshi Technology Co., Ltd., Gasmeter Technologies, J.U.M. Engineering GmbH, etc.

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

Market Segmentation

Online Oil Fume Monitoring 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

Particle Concentration Detector

Multi-parameter Oil Fume Monitor

High-end Gas Analysis

Market segment by Detection Principle

Optical Scattering Type Sensor

Infrared Absorption Type Sensor

Laser Detection Type Sensor

Electrostatic Sampling Type Sensor

Market segment by Functional Features

Single-parameter Sensor

Multi-parameter Integrated Sensor

Smart Cloud-connected Sensor

Market segment by Application

Food & Beverage Industry

Environmental Law Enforcement

Others

Major players covered

Madur

Testo

RAE Systems

IMR Environmental Equipment

Cerex Monitoring Solutions, LLC.

MSA Safety

Enerac, LLC

Shandong Weimengshi Technology Co., Ltd.

Gasmet Technologies

J.U.M. Engineering GmbH

Eurotron Instruments

Guangzhou Beslan Environmental Protection Technology Co., Ltd.

Shen ZHEN Osen Cleanroom Tech, Co., Ltd.

Qingdao Lubo Hongye Environmental Protection

Jinye Instruments

Shenzhen GCEM Environmental Technology Co., Ltd.

MSD-Tech

OTECH

JSW

Hejia Automation

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 Online Oil Fume Monitoring Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Online Oil Fume Monitoring Sensor, with price, sales quantity, revenue, and global market share of Online Oil Fume Monitoring Sensor from 2021 to 2026.

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

Chapter 4, the Online Oil Fume Monitoring 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 Online Oil Fume Monitoring 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 Online Oil Fume Monitoring Sensor.

Chapter 14 and 15, to describe Online Oil Fume Monitoring Sensor sales channel, distributors, customers, research findings and conclusion.

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