

Global Optical Gas Sensor Module Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GDC153DF8A50EN.html>

Date: June 2026

Pages: 103

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

ID: GDC153DF8A50EN

Abstracts

The global Optical Gas Sensor Module market size is expected to reach \$ 990 million by 2032, rising at a market growth of 9.8% CAGR during the forecast period (2026-2032).

An optical gas detection module is a high-precision sensor device based on optical principles for analyzing gas composition, widely used in industrial safety, environmental monitoring, energy management, and laboratory analysis. The module employs technologies such as laser absorption spectroscopy, infrared spectroscopy, or ultraviolet spectroscopy to achieve real-time, non-contact detection of gas types and concentrations. Its core principle relies on the interaction between specific wavelength light and target gas molecules, producing absorption or scattering signals that are converted and processed to determine gas concentration. Optical gas detection modules typically offer fast response, high sensitivity, strong selectivity, good anti-interference capability, and operation without consumable reagents, making them suitable for complex industrial environments and high-precision analysis. With the advancement of smart manufacturing and environmental protection policies, demand for these modules is increasing in downstream applications such as petrochemicals, natural gas, power, chemical industries, and indoor air quality monitoring. Combined with data acquisition, wireless transmission, and intelligent analytics, they enable real-time monitoring and early warning of gas leaks, emissions control, and environmental pollution, providing reliable support for industrial safety and environmental management while driving the industry toward higher performance, intelligence, and miniaturization.

The global NDIR optical gas sensor market is relatively fragmented, featuring a pattern where overseas giants monopolize the high-end market while domestic Chinese enterprises are accelerating import substitution. Currently, three international leaders

including Amphenol, Senseair and Sensirion together hold more than 10% of the global market share, and have long dominated high value-added application scenarios such as industrial safety, medical treatment and automotive applications with high profitability thanks to their mature technologies, stable product performance and high-end brand advantages. The products are widely applied across various scenarios, with industrial safety, environmental monitoring and HVAC & smart homes as core sectors; among them, the carbon dioxide sensor market has the largest volume, while refrigerant and methane detection sensors enjoy strong growth momentum. As the world's largest single consumer market, China offers huge development potential for the industry driven by the dual-carbon strategy, upgraded industrial monitoring and the popularization of smart homes. Domestic manufacturers represented by Cube Optoelectronics and Hanwei Technology have continuously upgraded their technologies and seized the mainstream mid-to-low-end market, yet still rely on imports for high-end core components and account for a relatively small share in the global market. Going forward, miniaturization, low power consumption and intelligence will be the key development trends; with the improvement of domestic R&D capabilities, industry concentration will gradually rise, the high-end self-sufficiency rate and global share of domestic products will keep increasing, and segmented sectors such as medical and automotive applications will further expand the industry's market space.

This report studies the global Optical Gas Sensor Module production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Optical Gas Sensor Module total production and demand, 2021-2032, (K Units)

Global Optical Gas Sensor Module total production value, 2021-2032, (USD Million)

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

Global Optical Gas Sensor Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Optical Gas Sensor Module domestic production, consumption, key domestic manufacturers and share

Global Optical Gas Sensor Module production by manufacturer, production, price, value

and market share 2021-2026, (USD Million) & (K Units)

Global Optical Gas Sensor Module production by Technology, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Optical Gas Sensor Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Optical Gas Sensor Module 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 Amphenol, Senseair, Honeywell, Sensirion, Murata, Siemens, Cube Optoelectronics, Hanwei Technology, Huagong Tech, Focused Photonics, 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 Optical Gas Sensor Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Technology, 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 Optical Gas Sensor Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Optical Gas Sensor Module Market, Segmentation by Technology:

Non-Dispersive Infrared Gas Module

Tunable Diode Laser Absorption Spectroscopy Module

Ultraviolet Absorption Gas Module

Photoionization Detection Module

Fiber Optical Gas Sensing Module

Fourier Transform Infrared Gas Module

Others

Global Optical Gas Sensor Module Market, Segmentation by Optical Path Structure:

Single Beam Optical Gas Detection Module

Dual Beam Optical Gas Detection Module

Multi-reflection Cell Optical Gas Detection Module

Others

Global Optical Gas Sensor Module Market, Segmentation by Application:

Industrial Environmental Monitoring Module

Indoor Air Quality Detection Module

Gas Safety Monitoring Module

Automotive Exhaust Detection Module

Medical Respiratory Gas Detection Module

Agricultural Greenhouse Gas Monitoring Module

Others

Companies Profiled:

Amphenol

Senseair

Honeywell

Sensirion

Murata

Siemens

Cube Optoelectronics

Hanwei Technology

Huagong Tech

Focused Photonics

Key Questions Answered:

1. How big is the global Optical Gas Sensor Module market?
2. What is the demand of the global Optical Gas Sensor Module market?

3. What is the year over year growth of the global Optical Gas Sensor Module market?
4. What is the production and production value of the global Optical Gas Sensor Module market?
5. Who are the key producers in the global Optical Gas Sensor Module market?
6. What are the growth factors driving the market demand?

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