

Global Semiconductor Manufacturing Gas Detector Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Semiconductor Manufacturing Gas Detector market size is expected to reach \$ 678 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

Semiconductor Manufacturing Gas Detectors are specialized online monitoring instruments or systems designed for high-precision manufacturing scenarios such as semiconductor manufacturing, wafer fabs, display panel plants, photovoltaics and new energy battery facilities, and adapted to working conditions involving high-purity process gases and specialty gases. They are mainly used for continuous online detection and quantitative analysis of oxygen, combustible gases, toxic gases, corrosive gases, asphyxiant gases, as well as related decomposition products and trace pollutants in process gas transmission, workshop ambient air, process exhaust and ultra-high-purity gas sources. Equipped with functions including real-time concentration monitoring, over-limit audible and visual alarms, data acquisition and remote transmission, such equipment can meet the requirements of clean workshop safety prevention and control, process gas purity control, exhaust emission compliance and production environment risk early warning. Adapted to the highly clean, highly corrosive and high-precision semiconductor process environment, it provides gas safety and process stability support for key processes such as wafer processing, thin film deposition, etching and doping, serving as core monitoring equipment for gas safety and quality control in advanced manufacturing. In 2025, the global sales volume of Semiconductor Manufacturing Gas Detectors reached approximately 62,000 units, with an average selling price of around US\$7,500 per unit and an average industry gross margin of about 34%.

The Semiconductor Manufacturing Gas Detector market will continue to evolve toward higher sensitivity, miniaturization, and multi-parameter integration to meet the stringent

requirements of advanced processes for monitoring extremely low gas concentrations. Intelligence and IoT connectivity have become core trends, with devices widely supporting remote monitoring, AI data analysis, and active early warning, while being deeply integrated into the smart factory management system. Wireless, modular, and plug-and-play designs are gaining popularity, significantly reducing deployment and maintenance costs. In terms of technology, new materials, MEMS, optical fiber sensing and other innovative technologies are accelerating application, greatly improving stability and anti-interference capabilities. Driven by global wafer fab expansion and stricter safety standards, market demand will grow steadily. Competition will focus on technological barriers and system-level solutions, while domestic enterprises will gradually increase their participation in the high-end market driven by domestic substitution.

This report studies the global Semiconductor Manufacturing Gas Detector production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Semiconductor Manufacturing Gas Detector total production and demand, 2021-2032, (K Units)

Global Semiconductor Manufacturing Gas Detector total production value, 2021-2032, (USD Million)

Global Semiconductor Manufacturing Gas Detector production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Semiconductor Manufacturing Gas Detector consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Semiconductor Manufacturing Gas Detector domestic production, consumption, key domestic manufacturers and share

Global Semiconductor Manufacturing Gas Detector production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Semiconductor Manufacturing Gas Detector production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Semiconductor Manufacturing Gas Detector production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Semiconductor Manufacturing Gas Detector 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 Honeywell Analytics, MSA Safety, Riken Keiki, Interscan, New Cosmos Electric, GfG, Hanwei Electronics Group, DOD Technologies, SENKO, Shenzhen Empaer Technology Co., Ltd., 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 Semiconductor Manufacturing Gas Detector 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 Semiconductor Manufacturing Gas Detector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Manufacturing Gas Detector Market, Segmentation by Type:

Portable Gas Detector

Fixed Gas Detector

Global Semiconductor Manufacturing Gas Detector Market, Segmentation by Application:

Petroleum Industry

Chemical Industry

Other

Companies Profiled:

Honeywell Analytics

MSA Safety

Riken Keiki

Interscan

New Cosmos Electric

GfG

Hanwei Electronics Group

DOD Technologies

SENKO

Shenzhen Empaer Technology Co., Ltd.

MKS Instruments

Sigas Measurement Engineering Co., Ltd.

Servomex

Picarro

RKI Instruments

Key Questions Answered:

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

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