

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

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## Abstracts

The global Semiconductor Gas Detector market size is expected to reach \$ 1273 million by 2032, rising at a market growth of 12.9% CAGR during the forecast period (2026-2032).

A semiconductor gas detector is a product system built around metal-oxide and related semiconductor sensing materials. It detects gas concentration changes or leakage events through resistance or conductivity shifts caused by heater activation and gas adsorption, and then combines temperature and humidity compensation, calibration algorithms, and digital interfaces to deliver continuous sensing, alarm, and control functions for combustible gases, volatile organic compounds, nitrogen oxides, refrigerants, and selected toxic gases. Main technology formats include traditional thick-film or sintered semiconductor sensing elements, low-power MEMS micro-hotplate MOX digital sensors, and industrial fixed transmitters and portable leak detectors for safety applications. These products are widely used in residential gas alarms, building HVAC and indoor air quality management, air purifiers and fresh-air systems, refrigerant leak monitoring in refrigeration and cold-chain systems, industrial combustible and toxic gas monitoring, and safety interlock systems in selected high-risk manufacturing environments. Common commercial delivery forms include volume supply of sensing elements and chips, modules and evaluation kits, complete detectors, and system integration services for HVAC, refrigeration, and industrial customers.

The semiconductor gas detector industry is evolving from traditional single-point alarm components into a multi-layer sensing platform serving indoor air quality management, HVAC control, refrigeration safety, industrial safety, and embedded devices. While the technical foundation remains the response of metal-oxide and related semiconductor materials to target gases, value creation is no longer limited to the sensing element

itself. It is increasingly extending to MEMS micro-hotplates, packaging design, temperature and humidity compensation, digital interfaces, algorithm modeling, and application-specific calibration. On their official product pages, Bosch, Sensirion, ScioSense, and Renesas all emphasize digitalization, low power consumption, multi-gas recognition, and software capabilities, showing that the industry is moving from simple device supply toward platform-level capability delivery. At the same time, traditional semiconductor gas sensor suppliers such as FIGARO, FIS, Winsen, and Hanwei continue to see solid demand in combustible gas and general alarm applications, indicating that legacy and emerging approaches are more likely to coexist across different price points, accuracy requirements, and application scenarios than to displace one another outright.

From a medium-term growth perspective, the most important drivers are regulation, safety compliance, and building health standards advancing at the same time. The implementation of the EU F-gas Regulation 2024/573 is expected to continue strengthening demand for refrigerant leak monitoring in commercial refrigeration, heat pumps, and cold-chain systems. Updates associated with ASHRAE 15 are also pushing equipment rooms and related facilities to reinforce continuous leak detection and control interlocks. Meanwhile, semiconductor manufacturing and other high-risk industrial environments have long relied on continuous gas detection and automatic shutoff systems, as reflected in OSHA guidance and SIA safety practice materials. For semiconductor-based sensing solutions, although selectivity is not always superior to infrared or electrochemical technologies, they retain durable competitiveness in cost, size, ease of integration, and response coverage in selected scenarios. As a result, they continue to have strong expansion potential in refrigerant monitoring, indoor air quality, general safety, and parts of the industrial fixed-system market.

From a regional perspective, the industry has formed a relatively clear international division of labor. Japanese companies retain deep strengths in traditional semiconductor gas sensing elements and industrial safety equipment, with FIGARO, FIS, and New Cosmos representing mature productization capabilities. Chinese companies stand out in scaled supply, category breadth, and speed of downstream deployment, with suppliers such as Winsen, Hanwei, Cubic, Aosong, and Xingshuo forming a comparatively complete supply base. European companies are stronger in digital MEMS gas sensing, algorithms, and highly integrated platforms, while Korean companies maintain specialized positions in selected gas sensing niches. It is also notable that commercialization is already highly globalized, with KNC explicitly stating exports to more than 20 countries and Cubic disclosing presence in more than 80 countries and regions. Looking ahead, as green buildings, refrigerant regulation, smart

homes, heat pumps, in-cabin air quality, and industrial safety upgrades continue to expand together, the semiconductor gas detector market is likely to maintain an optimistic growth trajectory.

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

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

### **Highlights and key features of the study**

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

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

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

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

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

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

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

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

This report profiles key players in the global Semiconductor 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 SGX Sensortech, Bosch Sensortec GmbH, Renesas Electronics Corporation, Sensirion AG, ScioSense B.V., FIGARO Engineering Inc., Nissha FIS, Inc., New Cosmos Electric, KNC Co., Ltd., Zhengzhou Winsen Electronics 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 Gas Detector market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/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 Gas Detector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Gas Detector Market, Segmentation by Type:

Portable

Mobile

### Global Semiconductor Gas Detector Market, Segmentation by Product Form:

Sensor Elements And Chips

Fixed Detectors

Portable Leak Detectors

### Global Semiconductor Gas Detector Market, Segmentation by Sensing Platform:

Thick-Film Semiconductor

MEMS Semiconductor

Others

### Global Semiconductor Gas Detector Market, Segmentation by Application:

Flammable Gas

Toxic Gas

Others

### Companies Profiled:

SGX Sensortech

Bosch Sensortec GmbH

Renesas Electronics Corporation

Sensirion AG

ScioSense B.V.

FIGARO Engineering Inc.

Nissha FIS, Inc.

New Cosmos Electric

KNC Co., Ltd.

Zhengzhou Winsen Electronics Technology Co., Ltd.

Hanwei Electronics

Cubic Sensor and Instrument Co., Ltd.

Guangzhou Aosong Electronics Co., Ltd.

Hunan Xingshuo Sensing Technology Co., Ltd.

Sch?tz GmbH Messtechnik

Emerson

MSA Safety

### **Key Questions Answered:**

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

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