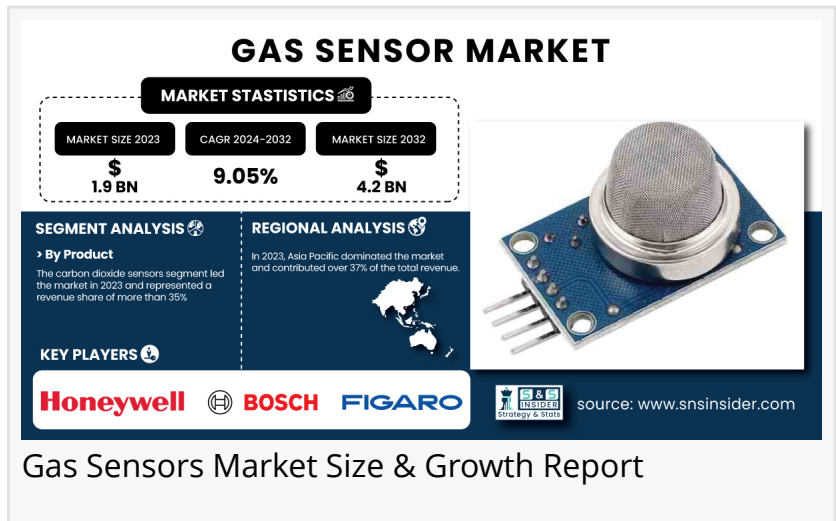


Gas Sensors Market to Surpass USD 4.2 Billion by 2032 Due to Demand for Environmental Monitoring and Industrial Safety

The Gas Sensor Market growth, driven by advancements in sensor technologies and increasing awareness of environmental and occupational safety.

AUSTIN, TX, UNITED STATES, January 16, 2025 /EINPresswire.com/ -- Market Size & Industry Insights

As Per the SNS Insider, "The [Gas Sensors Market](#) was valued at USD 1.9 billion in 2023 and is projected to reach USD 4.2 billion by 2032, growing at a CAGR of 9.05% over the forecast period of 2024-2032."



Gas Sensors Market Size & Growth Report

Gas Sensor Market Drives Innovation with IoT Integration and Advanced Emission Standards

The Gas Sensor Market is a significant player in environmental monitoring and industrial safety, as demand from the automotive, healthcare, and manufacturing sectors increases. Gas sensors are critical for safety, efficiency, and regulatory compliance, as they detect and measure the presence of gases in various environments. Government regulations on air quality and emissions, along with heightened awareness of environmental safety, are key growth drivers. For example, Euro 7 emission standards in the automotive industry accelerated the adoption of advanced gas sensors to monitor and control emissions properly.

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SWOT Analysis of Key Players as follows:

- Honeywell
- Bosch
- Figaro Engineering
- Senseair

- Alphasense
- Amphenol Advanced Sensors
- MSA Safety
- Figaro Engineering Inc.
- GFG Gas Detection
- City Technology
- Dynamet
- Sick AG
- Edinburgh Sensors
- Figaro
- International Sensor Technology
- Amphenol

Advances in miniaturization, improved sensitivity, and integration with the Internet of Things (IoT) are also changing the landscape. Now, modern gas sensors, like metal oxide semiconductor (MOS) and photoionization detection (PID) sensors, are smaller and efficient enough to be used in portable and wearable applications. In this regard, examples of recent breakthroughs are found in gas sensors implanted in smart home devices to measure air quality in real-time. Examples of these pioneers include Honeywell and Bosch.

CO₂ Sensors and Wired Gas Sensors Lead the Market, While Wireless Sensors Show Rapid Growth Potential

By Product

The carbon dioxide (CO₂) sensors segment was the market leader in 2023 with a revenue share of more than 35%. CO₂ sensors are used very widely for indoor air quality monitoring in all homes, offices, healthcare, and automotive applications. Companies have been increasingly shifting focus towards MEMS-based CO₂ sensors which provide compact solutions for various industries.

High growth potential is foreseen for the CO segment in carbon monoxide sensors on account of growing stringent safety rules at work, and greater numbers of instances of poisoning with CO. Mandating of the requirement of installation of CO detectors within the school building itself by certain U.S. states, including California and Illinois, enhances the need for these carbon monoxide sensors.

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By Type

In 2023, the wired segment dominated the market with more than 58% of the revenue. Wired gas sensors are chosen for their precision, reliability, and cost-effectiveness, and therefore find

applications in mines, oil rigs, and nuclear plants. The increased use of wired sensors in homes further supports this segment's growth.

Meanwhile, wireless gas sensors are expected to grow at the highest CAGR over the forecast period 2024-2032. These sensors have advantages such as scalability, portability, and remote monitoring capabilities. These sensors are increasingly adopted in the petrochemical and manufacturing industries, minimizing risks associated with hazardous gas leaks.

Asia-Pacific Led Gas Sensor Market, While Europe Poised for Fastest Growth with Stringent Emission Norms

In 2023, Asia-Pacific held the leading share of the Gas Sensor Market with over 37% revenue contribution. It is led by urbanization and industrialization growth along with awareness regarding air pollution and health impact, which in countries such as India and China are witnessing fast-paced development. Smart city projects, implemented by governments, strengthen demand for more advanced gas sensors.

Europe is likely to experience the highest CAGR during the forecast period 2024-2032, due to stringent gas emission norms and the requirement of emission surveys. Automotive manufacturers in the region are using gas sensor technologies to adhere to safety and environmental standards. Also, the current innovations by the European market players are likely to increase the demand for high-end gas sensors.

RECENT DEVELOPMENTS

-September 2024: Honeywell Analytics introduced the GasAlert Micro 5, a compact gas detection tool aimed at risky environments, improving user experience and data recording features.

-January 2024: Teledyne launched a new infrared (IR) sensor for its OLCT 100 XPIR fixed gas detector, improving stable and dependable methane detection measurements for industrial, utility, and laboratory sectors.

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