

Gas Sensor Market Size, Share & Trends Analysis Report By Product, By Type, By Technology, By End Use, By Region, And Segment Forecasts, 2022 - 2030

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Abstracts

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Gas Sensors Market Growth & Trends

The global gas sensor market size is expected to reach USD 5.34 billion by 2030, registering a CAGR of 8.9% from 2022 to 2030, according to a new report by Grand View Research, Inc. The market growth can be attributed to the increasing number of health and safety regulations by the governments of different countries. Furthermore, the need to constantly control and monitor gas emissions through various industrial processes creates more demand for gas sensors globally.

According to researchers at Northeastern and Penn State University, wearable gas sensors for human health and environmental monitoring are expected to be commercially available in the coming years. These sensors use a self-heating mechanism that enhances sensitivity and allows for the quick reuse and recovery of the platform.

IoT-based wireless gas sensors are used in smart cities to predict fire conditions, detect air pollution levels, and track gas combustion. Through IoT gas sensors, air quality data can be collected, processed, analyzed, and exchanged in real-time, potentially leading to healthier smart cities. Moreover, gas sensors can potentially help in assessing the levels of various gases such as carbon dioxide, carbon monoxide, and other gases in the air, and contribute favorably to curbing air pollution.

The outbreak of the COVID-19 pandemic is anticipated to create new opportunities for

the market players. The demand for carbon dioxide gas sensors is expected to increase significantly in particular. Carbon dioxide gas sensors are being used widely in European countries for monitoring the indoor environment in schools to control the spread of coronavirus. Guidelines published by the Federation of European Heating, Ventilation, and Air Conditioning Associations also recommend installing carbon dioxide monitoring systems in schools.

Gas Sensors Market Report Highlights

The oxygen sensor segment is expected to witness significant growth in the forecast period. The increasing adoption of oxygen gas sensors in medical equipment is expected to drive the growth of the segment

The demand for wireless gas sensors is rising owing to their benefits such as ease of installation and flexibility associated with wireless devices

The demand for electrochemical gas sensors is rising owing to the ability of these sensors to detect harmful gas emissions and help in improving air quality

The increasing number of smart city projects being rolled out worldwide are driving the demand for IoT-enabled gas sensors for monitoring environmental gas

Rapid urbanization in emerging economies, such as China and India, is expected to create growth opportunities for the Asia Pacific regional market

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