

Global Volatile Organic Compound (VOC) Gas Sensor Market Size study & Forecast, By Technology (Photo-ionization Detector, Infrared-based detection, Metal-oxide Semiconductor, Others), By Type (Single Gas Detection Sensor, Multiple Gas Detection Sensor), by Application (Oil & Gas, Agriculture, Automotive, Chemical Industry, Manufacturing, Food & Beverages, Metals & Mining, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Volatile Organic Compound (VOC) Gas Sensor Market is valued at approximately USD 154.1 million in 2022 and is anticipated to grow with a healthy growth rate of more than 5.5% over the forecast period 2023-2030. A Volatile Organic Compound (VOC) gas sensor is a device designed to detect and measure the presence of volatile organic compounds in the air. VOCs are a group of carbon-based chemicals that easily vaporize at room temperature, releasing gases into the environment. They can come from various sources, including paints, solvents, cleaning products, adhesives, building materials, and even certain indoor activities. The Volatile Organic Compound (VOC) Gas Sensor market is expanding because of factors such as increasing awareness of indoor air quality, growing demand for VOC sensors in HVAC systems, and increasing focus on green building certification. Additionally, the demand for industrial and private environmental monitoring is driven by the growing awareness of indoor and outdoor air quality. Industrial VOC gas sensors have very low efficiency and use more energy at higher temperatures. Thus, rising demand for sensors with high accuracy and low power consumption is also a these are the key driver for the volatile organic compound gas sensor market .

The players in the region have been compelled by the rising demand for fuels and natural gases to either increase their output or search for ways to expand their production capacities. Over the projection period, situations such as these are anticipated to encourage the deployment of VOC gas sensors. Moreover, the extensive use of VOC gas sensors in a variety of sectors is attributed to the increased enforcement of rules and laws by governmental organizations like the U.S. Environmental Protection Agency (EPA) and the Mine Safety and Health Administration (MSHA). The national volatile organic compound emission standard for consumer and commercial products is 40 CFR 59, which is controlled by the EPA at the federal level in the United States. Additionally, the Volatile Organic Compound Concentration Restrictions for Certain Products Regulations, which commenced in effect in Canada on January 5, 2022, require importers and producers to abide by VOC concentration restrictions in approximately 130 product subcategories and categories. Furthermore, the key factors presenting various opportunities for the growth of the volatile organic compound gas sensor market include increasing Internet of Things (IoT) integration, sensing technology developments, a greater emphasis on energy efficiency, and an increase in the construction of smart cities. However, VOC gas sensors often incorporate advanced technologies and materials, that result in higher production costs, which stifles the market growth. Additionally, the VOC emissions regulations imposed by governments and regulatory bodies can significantly impact the VOC gas sensor market, throughout the forecast period of 2023-2030.

The key regions considered for the Global Volatile Organic Compound (VOC) Gas Sensor Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to the rising need for industrial and environmental monitoring solutions in the region is contributing for the market's expansion. The market for VOC gas sensors is expanding as a result of the region's expanding use of IoT and smart technologies. Europe is expected to grow significantly during the forecast period of 2023-2030. The rising government's strong emphasis on energy efficiency and VOC gas emission control measures is primarily attributed to the regional market expansion. Additionally, it is anticipated that the development of and end-use industry and presence of the large number of VOC gas sensor producers in the region, including Siemens AG, Sensirion AG, and Ion Science Ltd. are further bolstering the market growth.

Major market player included in this report are:

Alphasense Inc

Honeywell International Inc.

Bosch Sensortec GmbH
ABB Ltd.
Siemens AG
Ion Science Ltd.
SGX Sensortech
Renesas Electronics Corporation
EcoSensors
Sensirion AG

Recent Developments in the Market:

In March 2021, the BME688 is a new gas sensor from Bosch Sensortec, a division of Robert Bosch GmbH. It integrates four environmental measurements: gas, humidity, temperature, and barometric pressure. In particular, this advanced sensor uses artificial intelligence to deliver improved air quality assessments.

Global Volatile Organic Compound (VOC) Gas Sensor Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Technology, Type, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Technology:

Photo-Ionization Detector (PID)
Infrared-based Detection
Metal-oxide Semiconductor
Others

By Type:

Single Gas Detection Sensor
Multiple Gas Detection Sensor

By Application:

Oil & Gas
Agriculture
Automotive
Chemical Industry
Manufacturing
Food & Beverages
Metals & Mining
Others

By Region:

North America
U.S.
Canada

Europe
UK
Germany
France
Spain
Italy
ROE

Asia Pacific
China
India
Japan

Australia
South Korea
RoAPAC

Latin America
Brazil
Mexico

Middle East & Africa
Saudi Arabia
South Africa
Rest of Middle East & Africa

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