

Gas Sensor Market by Gas Type(Carbon Monoxide, Methane, Hydrogen, Ammonia, Oxygen, and Others), Technology (Infrared Gas Sensor, Photo Ionization Sensor, Electrochemical Gas Sensor, Thermal Conductivity Gas Sensor, Metal Oxide-Based Gas Sensor, Catalytic Gas Sensor, and Others)and End Use (Defense & Military, Healthcare, Consumer Electronics, Automotive & Transportation, Industrial, and Others):Global Opportunity Analysis and Industry Forecast, 2020–2027

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Abstracts

A gas sensor is a device that detects the presence or concentration of gases in the atmosphere or environment. Based on the concentration of gases in the environment, the gas sensor displays a change in resistance of the material used in the sensor, which in turn is used to measure output voltage. Based on this change in voltage value, the type and concentration of gas is detected.

Gas sensors are meant to detect volatile compounds such as gases and air quality. These sensors detect and measure the concentration of gas and can change the concentration of an analyte gas into an electronic or electrical signal. These sensors are used in various industries ranging from medicine, defense & military, energy, and aerospace.

The need to constantly monitor and control gas emissions by various industrial processes, creates a requirement for gas sensors. The various uses of gas sensors

vary across a wide range from industrial to domestic end uses. For instance, monitoring air pollution, chemical processes, and exhaust from combustion engines are the various applications for gas sensor installation. In recent years, several types of gases have been used in different industries as raw materials. It becomes important to control and monitor these gases, as there is a huge risk of damage to property and human lives. Certain gases are corrosive, explosive, or can be toxic for human beings. The mentioned factors assist in the market expansion of gas sensors by creating its demand under various industry verticals such as automotive, industrial among others globally.

According to researchers at Penn State and Northeastern University, wearable gas sensors for environmental and human health monitoring are expected to be commercially available in the near future. These sensors are expected to be highly sensitive in nature due to their self-heating mechanism. The researchers are using highly porous single line of nanomaterial for the sensors that detect gas and biomolecules and are also expected to detect different chemicals.

Factors such as increase in adoption of gas sensors in HVAC system and rise in need for air quality monitoring in smart cities and surge in government standard and regulations concerning emission control are driving the global gas sensor market. However, high cost of the devices is expected to hamper the market growth to a certain extent. Furthermore, growth in trends toward internet of things (IoT) for networking, and rise in demand for smart gas sensors is expected to offer lucrative opportunities for the gas sensor market globally.

The report segments the global gas sensor market based on gas type, technology, end user, and region. On the basis of gas type, the market is analyzed across carbon monoxide, methane, hydrogen, ammonia, oxygen, and others. The technology segment is analyzed across infrared gas sensors, photo ionization sensors, electrochemical gas sensors, thermal conductivity gas sensors, catalytic gas sensor, and others. By end user, the market is studied across military & defense, healthcare, consumer electronics, defense & military, automotive & transportation, industrial, and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA, along with their prominent countries.

The key gas sensor market leaders profiled in the report include Honeywell Analytics, Sensirion, GASTEC Corporation, Nemoto Gas Sensors, Figaro Engineering Inc, MSA, Alphasense, Membrapor, Amphenol, and Dynamet.

Key players profiled in the report include Leonardo DRS, CONTROP Precision Technologies Ltd., L3Harris Wescam, Ascent Vision Technologies LLC, FLIR Systems, Inc., Lockheed Martin, PVP Advanced EO Systems, I2Tech, Harris Aerial, AeroVironment, Inc., Ukrspesystems, ZHIYUN, and MERIO.

GAS SENSOR MARKET SEGMENTATION

By Gas Type

Carbon Monoxide

Methane

Hydrogen

Ammonia

Oxygen,

Others

By Technology

Infrared Gas Sensors,

Photo Ionization Sensors

Electrochemical Gas Sensors

Thermal Conductivity Gas Sensors

Catalytic Gas Sensor

others

By End Use

Military & Defense

Healthcare

Consumer Electronics

Automotive & Transportation

Industrial

Others

By Region

North America

U.S.

Canada

Europe

UK

Germany

France

Rest of Europe

Asia-Pacific

China

India

Japan

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Companies

Honeywell Analytics

Sensirion

GASTEC Corporation

Nemoto Gas Sensors

Figaro Engineering Inc

MSA

Alphasense

Membrapor

Amphenol

Dynament

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