

# Global Electrochemical Gas Sensors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Electrochemical Gas Sensors market size is expected to reach \$ 407 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

Electrochemical gas sensors are gas detectors that measure the concentration of a target gas by oxidizing or reducing the target gas at an electrode and measuring the resulting current. The sensors contain two or three electrodes, occasionally four, in contact with an electrolyte. The electrodes are typically fabricated by fixing a high surface area precious metal on to the porous hydrophobic membrane. The working electrode contacts both the electrolyte and the ambient air to be monitored usually via a porous membrane. The electrolyte most commonly used is a mineral acid, but organic electrolytes are also used for some sensors. The electrodes and housing are usually in a plastic housing which contains a gas entry hole for the gas and electrical contacts. The gas diffuses into the sensor, through the back of the porous membrane to the working electrode where it is oxidized or reduced. This electrochemical reaction results in an electric current that passes through the external circuit. In addition to measuring, amplifying and performing other signal processing functions, the external circuit maintains the voltage across the sensor between the working and counter electrodes for a two electrode sensor or between the working and reference electrodes for a three electrode cell. At the counter electrode an equal and opposite reaction occurs, such that if the working electrode is an oxidation, then the counter electrode is a reduction.

Global giant manufactures mainly distributed in UK, The manufacturers in UK have a long history and unshakable status in this field. Manufacturers such as City Technology and Alphasense have relative higher level of product's quality. As to Switzerland, MEMBRAPOR has become as a global leader. In Germany, Draeger leads the

technology development.

The key consumption markets locate at developed countries. The Europe takes the market share of 48%, followed by United States with 17%.

This report studies the global Electrochemical Gas Sensors production, demand, key manufacturers, and key regions.

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

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

Global Electrochemical Gas Sensors total production and demand, 2021-2032, (K Units)

Global Electrochemical Gas Sensors total production value, 2021-2032, (USD Million)

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

Global Electrochemical Gas Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Electrochemical Gas Sensors domestic production, consumption, key domestic manufacturers and share

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

Global Electrochemical Gas Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Electrochemical Gas Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Electrochemical Gas Sensors 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 City Technology, Alphasense, MEMBRAPOR, SGX Sensortech, Figaro, Draeger, Winsen, Dart, GE, Emerson, 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 Electrochemical Gas Sensors market

### **Detailed Segmentation:**

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Electrochemical Gas Sensors Market, Segmentation by Type:

Inflammable Gas Type

Toxic Gas Type

Other Gases Type

## Global Electrochemical Gas Sensors Market, Segmentation by Application:

Civil Gas Safety

Chemical & Oil

Mining

Environmental

Others

## Companies Profiled:

City Technology

Alphasense

MEMBRAPOR

SGX Sensortech

Figaro

Draeger

Winsen

Dart

GE

Emerson

**Key Questions Answered:**

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

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