

# Global Carbon Dioxide Gas Sensor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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# Abstracts

According to our (Global Info Research) latest study, the global Carbon Dioxide Gas Sensor market size was valued at USD 691.7 million in 2023 and is forecast to a readjusted size of USD 1099.3 million by 2030 with a CAGR of 6.8% during review period.

The carbon dioxide sensor is a machine used to detect the concentration of carbon dioxide. Carbon dioxide is one of the raw materials for photosynthesis of green plants, and 95% of the dry weight of crops comes from photosynthesis. Therefore, the use of carbon dioxide sensors to control the concentration has become an important factor affecting crop yields.

Global core carbon dioxide gas sensor manufacturers include Amphenol, Sensirion and Murata etc. The top 5 companies hold a share about 25%. North America is the largest market, with a share about 36%, followed by Europe and Asia-Pacific with the share about 27% and 27%. In terms of product, NDIR CO2 gas sensor is the largest segment, with a share over 95%. And in terms of application, the largest application is industrial, followed by building automation.

The Global Info Research report includes an overview of the development of the Carbon Dioxide Gas Sensor industry chain, the market status of Industrial (NDIR CO2 Gas Sensor, Catalytic CO2 Gas Sensor), Building Automation (NDIR CO2 Gas Sensor, Catalytic CO2 Gas Sensor), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Carbon Dioxide Gas Sensor.



Regionally, the report analyzes the Carbon Dioxide Gas Sensor markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Carbon Dioxide Gas Sensor market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Carbon Dioxide Gas Sensor market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Carbon Dioxide Gas Sensor industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., NDIR CO2 Gas Sensor, Catalytic CO2 Gas Sensor).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Carbon Dioxide Gas Sensor market.

Regional Analysis: The report involves examining the Carbon Dioxide Gas Sensor market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Carbon Dioxide Gas Sensor market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Carbon Dioxide Gas Sensor:

Company Analysis: Report covers individual Carbon Dioxide Gas Sensor manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios,

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partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Carbon Dioxide Gas Sensor This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial, Building Automation).

Technology Analysis: Report covers specific technologies relevant to Carbon Dioxide Gas Sensor. It assesses the current state, advancements, and potential future developments in Carbon Dioxide Gas Sensor areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Carbon Dioxide Gas Sensor market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Carbon Dioxide Gas Sensor market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

NDIR CO2 Gas Sensor

Catalytic CO2 Gas Sensor

Thermal Conductivity CO2 Gas Sensor

Market segment by Application

Industrial

**Building Automation** 



Air Purifier

Automotive

Petrochemical

Others

Major players covered

Amphenol

Sensirion

Murata

Vaisala

Siemens

Honeywell

ELT SENSOR Corp

E+E Elektronik Ges.m.b.H

CUBIC

Trane

Senseair

GSS (Gas Sensing Solutions)

**Digital Control System** 

SOHA Tech



SST Sensing

Building Automation Products Inc (BAPI)

Ati Airtest Technologies

Winsen

Figaro

NIDS

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Carbon Dioxide Gas Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon Dioxide Gas Sensor, with price, sales, revenue and global market share of Carbon Dioxide Gas Sensor from 2019 to 2024.

Chapter 3, the Carbon Dioxide Gas Sensor competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by



landscape contrast.

Chapter 4, the Carbon Dioxide Gas Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023.and Carbon Dioxide Gas Sensor market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Carbon Dioxide Gas Sensor.

Chapter 14 and 15, to describe Carbon Dioxide Gas Sensor sales channel, distributors, customers, research findings and conclusion.



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