

Global Industrial Grade CO2 Sensor Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Industrial Grade CO2 Sensor market size was valued at US\$ 797 million in 2024 and is forecast to a readjusted size of USD 1292 million by 2031 with a CAGR of 7.2% 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.

This report is a detailed and comprehensive analysis for global Industrial Grade CO2 Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Industrial Grade CO2 Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Industrial Grade CO2 Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices

(US\$/Unit), 2020-2031

Global Industrial Grade CO2 Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Industrial Grade CO2 Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Industrial Grade CO2 Sensor
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Industrial Grade CO2 Sensor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Amphenol Corporation, Siemens AG, Honeywell, Murata, Sensirion AG, Infineon Technologies, Renesas Electronics, Bosch Sensortec, SenseAir (Asahi Kasei), Figaro, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Industrial Grade CO2 Sensor market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

NDIR (Non-Dispersive Infrared) CO2 Sensors

EC (Electrochemical) CO2 Sensors

PAS (Photoacoustic Spectroscopy) CO2 Sensors

Others

Market segment by Application

Agriculture

Food Industry

Automotive

Petrochemical

Others

Major players covered

Amphenol Corporation

Siemens AG

Honeywell

Murata

Sensirion AG

Infineon Technologies

Renesas Electronics

Bosch Sensortec

SenseAir (Asahi Kasei)

Figaro

GSS Gas Sensing Solutions

Winsen

ELT SENSOR

Cubic Sensor and Instrument

SOHA Tech

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 Industrial Grade CO₂ Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Industrial Grade CO₂ Sensor, with price, sales quantity, revenue, and global market share of Industrial Grade CO₂ Sensor from 2020 to 2025.

Chapter 3, the Industrial Grade CO₂ Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Industrial Grade CO₂ Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Industrial Grade CO2 Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Industrial Grade CO2 Sensor.

Chapter 14 and 15, to describe Industrial Grade CO2 Sensor sales channel, distributors, customers, research findings and conclusion.

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