

Global Carbon Dioxide Gas Sensor Market Research Report 2026(Status and Outlook)

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Abstracts

Carbon Dioxide (CO₂) Gas Sensor is a sensor used to detect and measure the concentration of carbon dioxide gas in the air. It provides real-time data by sensing the concentration changes of carbon dioxide in the environment. It is widely used in environmental monitoring, industrial safety, air quality control, smart building systems and other fields. The CO₂ gas sensor market has developed rapidly in recent years. With the increasing demand in environmental protection, smart home, industrial automation and air quality control, the market size and application have gradually expanded. CO₂ gas sensors are mainly used to detect and monitor the concentration of carbon dioxide in the air, and are widely used in environmental monitoring, smart buildings, agriculture, industrial production, medical health and other fields. Its core function is to monitor the concentration of carbon dioxide in the air in real time, timely feedback environmental changes, and ensure the safety of air quality and working environment. At present, the market demand for CO₂ gas sensors is mainly driven by the following factors. First, with the increasing global attention to environmental protection and air quality, especially in the context of accelerated urbanization, air pollution has become more prominent. As the main component of greenhouse gases, the concentration of CO₂ is closely related to the atmospheric environment. Therefore, the demand for monitoring CO₂ concentration in cities and industrial areas is increasing. Secondly, the development of smart buildings and smart homes has also promoted the widespread application of CO₂ sensors. In smart homes, by monitoring the concentration of carbon dioxide in the air, the ventilation system can be adjusted to ensure indoor air quality, and energy efficiency can be optimized through data analysis to improve living comfort. In addition, public places such as smart office buildings, schools, and hospitals are also paying more and more attention to air quality, and the application demand of CO₂ gas sensors in these fields is increasing. In the industrial field, CO₂ sensors are widely used for gas monitoring in the production process, such

as food processing, beverage production, chemical industry and other industries. Monitoring CO₂ concentration is crucial to ensure the safety of the production process and improve production efficiency. Especially in greenhouse agriculture, reasonable CO₂ concentration control can significantly improve crop photosynthesis and promote plant growth. Therefore, for agricultural producers, the demand for CO₂ sensors is also gradually increasing. The CO₂ gas sensor market is undergoing rapid technological changes and demand growth. With the strengthening of environmental protection regulations, the development of intelligent technology, and the increase in people's attention to air quality, the application of CO₂ sensors will become more and more extensive. In the future, CO₂ sensors will be more intelligent, accurate, low-power, and able to adapt to more complex application environments. With the continuous innovation of technology and the expansion of market demand, the market for CO₂ gas sensors will usher in a broader development space. 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 Carbon Dioxide Gas Sensor market size was estimated at USD 966.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 7.10% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Carbon Dioxide Gas Sensor market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Carbon Dioxide Gas Sensor market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding

of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Carbon Dioxide Gas Sensor market.

Global Carbon Dioxide Gas Sensor Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Amphenol
Sensirion
Murata
Vaisala
Siemens
Honeywell
ELT SENSOR Corp
E+E Elektronik Ges.m.b.H
CUBIC
Trane
Asahi Kasei Microdevices (Senseair)
GSS (Gas Sensing Solutions)
Digital Control System
SOHA Tech
SST Sensing
Building Automation Products Inc (BAPI)
Ati Airtest Technologies

Winsen
Figaro
NIDS
Aosong?Guangzhou) Electronics
Sencoch
EC Sense
Infineon
ASAIR
Hoto Intelligent Control Technology
Tempus

Market Segmentation (by Type)

NDIR CO2 Gas Sensor
Catalytic CO2 Gas Sensor
Thermal Conductivity CO2 Gas Sensor

Market Segmentation (by Application)

Industrial
Building Automation
Air Purifier
Automotive
Petrochemical
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance

Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Carbon Dioxide Gas Sensor Market
Overview of the regional outlook of the Carbon Dioxide Gas Sensor Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Carbon Dioxide Gas Sensor Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application,

covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Carbon Dioxide Gas Sensor, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and

acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Carbon Dioxide Gas Sensor

1.2 Key Market Segments

1.2.1 Carbon Dioxide Gas Sensor Segment by Type

1.2.2 Carbon Dioxide Gas Sensor Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 CARBON DIOXIDE GAS SENSOR MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Carbon Dioxide Gas Sensor Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Carbon Dioxide Gas Sensor Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 CARBON DIOXIDE GAS SENSOR MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Carbon Dioxide Gas Sensor Product Life Cycle

3.3 Global Carbon Dioxide Gas Sensor Sales by Manufacturers (2020-2025)

3.4 Global Carbon Dioxide Gas Sensor Revenue Market Share by Manufacturers (2020-2025)

3.5 Carbon Dioxide Gas Sensor Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Carbon Dioxide Gas Sensor Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Carbon Dioxide Gas Sensor Market Competitive Situation and Trends

3.8.1 Carbon Dioxide Gas Sensor Market Concentration Rate

3.8.2 Global 5 and 10 Largest Carbon Dioxide Gas Sensor Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 CARBON DIOXIDE GAS SENSOR INDUSTRY CHAIN ANALYSIS

4.1 Carbon Dioxide Gas Sensor Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF CARBON DIOXIDE GAS SENSOR MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Carbon Dioxide Gas Sensor Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Carbon Dioxide Gas Sensor Market

5.7 ESG Ratings of Leading Companies

6 CARBON DIOXIDE GAS SENSOR MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Carbon Dioxide Gas Sensor Sales Market Share by Type (2020-2025)

6.3 Global Carbon Dioxide Gas Sensor Market Size by Type (2020-2025)

6.4 Global Carbon Dioxide Gas Sensor Price by Type (2020-2025)

7 CARBON DIOXIDE GAS SENSOR MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Carbon Dioxide Gas Sensor Market Sales by Application (2020-2025)
- 7.3 Global Carbon Dioxide Gas Sensor Market Size (M USD) by Application (2020-2025)
- 7.4 Global Carbon Dioxide Gas Sensor Sales Growth Rate by Application (2020-2025)

8 CARBON DIOXIDE GAS SENSOR MARKET SALES BY REGION

- 8.1 Global Carbon Dioxide Gas Sensor Sales by Region
 - 8.1.1 Global Carbon Dioxide Gas Sensor Sales by Region
 - 8.1.2 Global Carbon Dioxide Gas Sensor Sales Market Share by Region
- 8.2 Global Carbon Dioxide Gas Sensor Market Size by Region
 - 8.2.1 Global Carbon Dioxide Gas Sensor Market Size by Region
 - 8.2.2 Global Carbon Dioxide Gas Sensor Market Size by Region
- 8.3 North America
 - 8.3.1 North America Carbon Dioxide Gas Sensor Sales by Country
 - 8.3.2 North America Carbon Dioxide Gas Sensor Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Carbon Dioxide Gas Sensor Sales by Country
 - 8.4.2 Europe Carbon Dioxide Gas Sensor Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Carbon Dioxide Gas Sensor Sales by Region
 - 8.5.2 Asia Pacific Carbon Dioxide Gas Sensor Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Carbon Dioxide Gas Sensor Sales by Country

- 8.6.2 South America Carbon Dioxide Gas Sensor Market Size by Country
- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Carbon Dioxide Gas Sensor Sales by Region
 - 8.7.2 Middle East and Africa Carbon Dioxide Gas Sensor Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 CARBON DIOXIDE GAS SENSOR MARKET PRODUCTION BY REGION

- 9.1 Global Production of Carbon Dioxide Gas Sensor by Region(2020-2025)
- 9.2 Global Carbon Dioxide Gas Sensor Revenue Market Share by Region (2020-2025)
- 9.3 Global Carbon Dioxide Gas Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Carbon Dioxide Gas Sensor Production
 - 9.4.1 North America Carbon Dioxide Gas Sensor Production Growth Rate (2020-2025)
 - 9.4.2 North America Carbon Dioxide Gas Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Carbon Dioxide Gas Sensor Production
 - 9.5.1 Europe Carbon Dioxide Gas Sensor Production Growth Rate (2020-2025)
 - 9.5.2 Europe Carbon Dioxide Gas Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Carbon Dioxide Gas Sensor Production (2020-2025)
 - 9.6.1 Japan Carbon Dioxide Gas Sensor Production Growth Rate (2020-2025)
 - 9.6.2 Japan Carbon Dioxide Gas Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Carbon Dioxide Gas Sensor Production (2020-2025)
 - 9.7.1 China Carbon Dioxide Gas Sensor Production Growth Rate (2020-2025)
 - 9.7.2 China Carbon Dioxide Gas Sensor Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 Amphenol

- 10.1.1 Amphenol Basic Information
- 10.1.2 Amphenol Carbon Dioxide Gas Sensor Product Overview
- 10.1.3 Amphenol Carbon Dioxide Gas Sensor Product Market Performance
- 10.1.4 Amphenol Business Overview
- 10.1.5 Amphenol SWOT Analysis
- 10.1.6 Amphenol Recent Developments
- 10.2 Sensirion
 - 10.2.1 Sensirion Basic Information
 - 10.2.2 Sensirion Carbon Dioxide Gas Sensor Product Overview
 - 10.2.3 Sensirion Carbon Dioxide Gas Sensor Product Market Performance
 - 10.2.4 Sensirion Business Overview
 - 10.2.5 Sensirion SWOT Analysis
 - 10.2.6 Sensirion Recent Developments
- 10.3 Murata
 - 10.3.1 Murata Basic Information
 - 10.3.2 Murata Carbon Dioxide Gas Sensor Product Overview
 - 10.3.3 Murata Carbon Dioxide Gas Sensor Product Market Performance
 - 10.3.4 Murata Business Overview
 - 10.3.5 Murata SWOT Analysis
 - 10.3.6 Murata Recent Developments
- 10.4 Vaisala
 - 10.4.1 Vaisala Basic Information
 - 10.4.2 Vaisala Carbon Dioxide Gas Sensor Product Overview
 - 10.4.3 Vaisala Carbon Dioxide Gas Sensor Product Market Performance
 - 10.4.4 Vaisala Business Overview
 - 10.4.5 Vaisala Recent Developments
- 10.5 Siemens
 - 10.5.1 Siemens Basic Information
 - 10.5.2 Siemens Carbon Dioxide Gas Sensor Product Overview
 - 10.5.3 Siemens Carbon Dioxide Gas Sensor Product Market Performance
 - 10.5.4 Siemens Business Overview
 - 10.5.5 Siemens Recent Developments
- 10.6 Honeywell
 - 10.6.1 Honeywell Basic Information
 - 10.6.2 Honeywell Carbon Dioxide Gas Sensor Product Overview
 - 10.6.3 Honeywell Carbon Dioxide Gas Sensor Product Market Performance
 - 10.6.4 Honeywell Business Overview
 - 10.6.5 Honeywell Recent Developments
- 10.7 ELT SENSOR Corp

- 10.7.1 ELT SENSOR Corp Basic Information
- 10.7.2 ELT SENSOR Corp Carbon Dioxide Gas Sensor Product Overview
- 10.7.3 ELT SENSOR Corp Carbon Dioxide Gas Sensor Product Market Performance
- 10.7.4 ELT SENSOR Corp Business Overview
- 10.7.5 ELT SENSOR Corp Recent Developments
- 10.8 E+E Elektronik Ges.m.b.H
 - 10.8.1 E+E Elektronik Ges.m.b.H Basic Information
 - 10.8.2 E+E Elektronik Ges.m.b.H Carbon Dioxide Gas Sensor Product Overview
 - 10.8.3 E+E Elektronik Ges.m.b.H Carbon Dioxide Gas Sensor Product Market Performance
 - 10.8.4 E+E Elektronik Ges.m.b.H Business Overview
 - 10.8.5 E+E Elektronik Ges.m.b.H Recent Developments
- 10.9 CUBIC
 - 10.9.1 CUBIC Basic Information
 - 10.9.2 CUBIC Carbon Dioxide Gas Sensor Product Overview
 - 10.9.3 CUBIC Carbon Dioxide Gas Sensor Product Market Performance
 - 10.9.4 CUBIC Business Overview
 - 10.9.5 CUBIC Recent Developments
- 10.10 Trane
 - 10.10.1 Trane Basic Information
 - 10.10.2 Trane Carbon Dioxide Gas Sensor Product Overview
 - 10.10.3 Trane Carbon Dioxide Gas Sensor Product Market Performance
 - 10.10.4 Trane Business Overview
 - 10.10.5 Trane Recent Developments
- 10.11 Asahi Kasei Microdevices (Senseair)
 - 10.11.1 Asahi Kasei Microdevices (Senseair) Basic Information
 - 10.11.2 Asahi Kasei Microdevices (Senseair) Carbon Dioxide Gas Sensor Product Overview
 - 10.11.3 Asahi Kasei Microdevices (Senseair) Carbon Dioxide Gas Sensor Product Market Performance
 - 10.11.4 Asahi Kasei Microdevices (Senseair) Business Overview
 - 10.11.5 Asahi Kasei Microdevices (Senseair) Recent Developments
- 10.12 GSS (Gas Sensing Solutions)
 - 10.12.1 GSS (Gas Sensing Solutions) Basic Information
 - 10.12.2 GSS (Gas Sensing Solutions) Carbon Dioxide Gas Sensor Product Overview
 - 10.12.3 GSS (Gas Sensing Solutions) Carbon Dioxide Gas Sensor Product Market Performance
 - 10.12.4 GSS (Gas Sensing Solutions) Business Overview
 - 10.12.5 GSS (Gas Sensing Solutions) Recent Developments

10.13 Digital Control System

10.13.1 Digital Control System Basic Information

10.13.2 Digital Control System Carbon Dioxide Gas Sensor Product Overview

10.13.3 Digital Control System Carbon Dioxide Gas Sensor Product Market

Performance

10.13.4 Digital Control System Business Overview

10.13.5 Digital Control System Recent Developments

10.14 SOHA Tech

10.14.1 SOHA Tech Basic Information

10.14.2 SOHA Tech Carbon Dioxide Gas Sensor Product Overview

10.14.3 SOHA Tech Carbon Dioxide Gas Sensor Product Market Performance

10.14.4 SOHA Tech Business Overview

10.14.5 SOHA Tech Recent Developments

10.15 SST Sensing

10.15.1 SST Sensing Basic Information

10.15.2 SST Sensing Carbon Dioxide Gas Sensor Product Overview

10.15.3 SST Sensing Carbon Dioxide Gas Sensor Product Market Performance

10.15.4 SST Sensing Business Overview

10.15.5 SST Sensing Recent Developments

10.16 Building Automation Products Inc (BAPI)

10.16.1 Building Automation Products Inc (BAPI) Basic Information

10.16.2 Building Automation Products Inc (BAPI) Carbon Dioxide Gas Sensor Product Overview

10.16.3 Building Automation Products Inc (BAPI) Carbon Dioxide Gas Sensor Product Market Performance

10.16.4 Building Automation Products Inc (BAPI) Business Overview

10.16.5 Building Automation Products Inc (BAPI) Recent Developments

10.17 Ati Airtest Technologies

10.17.1 Ati Airtest Technologies Basic Information

10.17.2 Ati Airtest Technologies Carbon Dioxide Gas Sensor Product Overview

10.17.3 Ati Airtest Technologies Carbon Dioxide Gas Sensor Product Market

Performance

10.17.4 Ati Airtest Technologies Business Overview

10.17.5 Ati Airtest Technologies Recent Developments

10.18 Winsen

10.18.1 Winsen Basic Information

10.18.2 Winsen Carbon Dioxide Gas Sensor Product Overview

10.18.3 Winsen Carbon Dioxide Gas Sensor Product Market Performance

10.18.4 Winsen Business Overview

- 10.18.5 Winsen Recent Developments
- 10.19 Figaro
 - 10.19.1 Figaro Basic Information
 - 10.19.2 Figaro Carbon Dioxide Gas Sensor Product Overview
 - 10.19.3 Figaro Carbon Dioxide Gas Sensor Product Market Performance
 - 10.19.4 Figaro Business Overview
 - 10.19.5 Figaro Recent Developments
- 10.20 NIDS
 - 10.20.1 NIDS Basic Information
 - 10.20.2 NIDS Carbon Dioxide Gas Sensor Product Overview
 - 10.20.3 NIDS Carbon Dioxide Gas Sensor Product Market Performance
 - 10.20.4 NIDS Business Overview
 - 10.20.5 NIDS Recent Developments
- 10.21 Aosong(Guangzhou) Electronics
 - 10.21.1 Aosong(Guangzhou) Electronics Basic Information
 - 10.21.2 Aosong(Guangzhou) Electronics Carbon Dioxide Gas Sensor Product Overview
 - 10.21.3 Aosong(Guangzhou) Electronics Carbon Dioxide Gas Sensor Product Market Performance
 - 10.21.4 Aosong(Guangzhou) Electronics Business Overview
 - 10.21.5 Aosong(Guangzhou) Electronics Recent Developments
- 10.22 Sencoch
 - 10.22.1 Sencoch Basic Information
 - 10.22.2 Sencoch Carbon Dioxide Gas Sensor Product Overview
 - 10.22.3 Sencoch Carbon Dioxide Gas Sensor Product Market Performance
 - 10.22.4 Sencoch Business Overview
 - 10.22.5 Sencoch Recent Developments
- 10.23 EC Sense
 - 10.23.1 EC Sense Basic Information
 - 10.23.2 EC Sense Carbon Dioxide Gas Sensor Product Overview
 - 10.23.3 EC Sense Carbon Dioxide Gas Sensor Product Market Performance
 - 10.23.4 EC Sense Business Overview
 - 10.23.5 EC Sense Recent Developments
- 10.24 Infineon
 - 10.24.1 Infineon Basic Information
 - 10.24.2 Infineon Carbon Dioxide Gas Sensor Product Overview
 - 10.24.3 Infineon Carbon Dioxide Gas Sensor Product Market Performance
 - 10.24.4 Infineon Business Overview
 - 10.24.5 Infineon Recent Developments

10.25 ASAIR

10.25.1 ASAIR Basic Information

10.25.2 ASAIR Carbon Dioxide Gas Sensor Product Overview

10.25.3 ASAIR Carbon Dioxide Gas Sensor Product Market Performance

10.25.4 ASAIR Business Overview

10.25.5 ASAIR Recent Developments

10.26 Hoto Intelligent Control Technology

10.26.1 Hoto Intelligent Control Technology Basic Information

10.26.2 Hoto Intelligent Control Technology Carbon Dioxide Gas Sensor Product Overview

10.26.3 Hoto Intelligent Control Technology Carbon Dioxide Gas Sensor Product Market Performance

10.26.4 Hoto Intelligent Control Technology Business Overview

10.26.5 Hoto Intelligent Control Technology Recent Developments

10.27 Tempus

10.27.1 Tempus Basic Information

10.27.2 Tempus Carbon Dioxide Gas Sensor Product Overview

10.27.3 Tempus Carbon Dioxide Gas Sensor Product Market Performance

10.27.4 Tempus Business Overview

10.27.5 Tempus Recent Developments

11 CARBON DIOXIDE GAS SENSOR MARKET FORECAST BY REGION

11.1 Global Carbon Dioxide Gas Sensor Market Size Forecast

11.2 Global Carbon Dioxide Gas Sensor Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Carbon Dioxide Gas Sensor Market Size Forecast by Country

11.2.3 Asia Pacific Carbon Dioxide Gas Sensor Market Size Forecast by Region

11.2.4 South America Carbon Dioxide Gas Sensor Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Carbon Dioxide Gas Sensor by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Carbon Dioxide Gas Sensor Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Carbon Dioxide Gas Sensor by Type (2026-2035)

12.1.2 Global Carbon Dioxide Gas Sensor Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Carbon Dioxide Gas Sensor by Type (2026-2035)

12.2 Global Carbon Dioxide Gas Sensor Market Forecast by Application (2026-2035)

- 12.2.1 Global Carbon Dioxide Gas Sensor Sales (K Units) Forecast by Application
- 12.2.2 Global Carbon Dioxide Gas Sensor Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Carbon Dioxide Gas Sensor Market Size by Type (M USD)

Table 4. Global Carbon Dioxide Gas Sensor Market Size by Application

Table 5. Carbon Dioxide Gas Sensor Market Size Comparison by Region (M USD)

Table 6. Global Carbon Dioxide Gas Sensor Sales (K Units) by Manufacturers
(2020-2025)

Table 7. Global Carbon Dioxide Gas Sensor Sales Market Share by Manufacturers
(2020-2025)

Table 8. Global Carbon Dioxide Gas Sensor Revenue (M USD) by Manufacturers
(2020-2025)

Table 9. Global Carbon Dioxide Gas Sensor Revenue Share by Manufacturers
(2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in
Carbon Dioxide Gas Sensor as of 2025)

Table 11. Global Market Carbon Dioxide Gas Sensor Average Price (USD/Unit) of Key
Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Carbon Dioxide Gas Sensor Manufacturers Market Concentration
Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Carbon Dioxide Gas Sensor Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading
Countries

Table 26. Global Carbon Dioxide Gas Sensor Sales by Type (K Units)

Table 27. Global Carbon Dioxide Gas Sensor Market Size by Type (M USD)

- Table 28. Global Carbon Dioxide Gas Sensor Sales (K Units) by Type (2020-2025)
- Table 29. Global Carbon Dioxide Gas Sensor Sales Market Share by Type (2020-2025)
- Table 30. Global Carbon Dioxide Gas Sensor Market Size (M USD) by Type (2020-2025)
- Table 31. Global Carbon Dioxide Gas Sensor Market Share by Type (2020-2025)
- Table 32. Global Carbon Dioxide Gas Sensor Price (USD/Unit) by Type (2020-2025)
- Table 33. Global Carbon Dioxide Gas Sensor Sales (K Units) by Application
- Table 34. Global Carbon Dioxide Gas Sensor Market Size by Application
- Table 35. Global Carbon Dioxide Gas Sensor Sales by Application (2020-2025) & (K Units)
- Table 36. Global Carbon Dioxide Gas Sensor Sales Market Share by Application (2020-2025)
- Table 37. Global Carbon Dioxide Gas Sensor Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Carbon Dioxide Gas Sensor Market Share by Application (2020-2025)
- Table 39. Global Carbon Dioxide Gas Sensor Sales Growth Rate by Application (2020-2025)
- Table 40. Global Carbon Dioxide Gas Sensor Sales by Region (2020-2025) & (K Units)
- Table 41. Global Carbon Dioxide Gas Sensor Sales Market Share by Region (2020-2025)
- Table 42. Global Carbon Dioxide Gas Sensor Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Carbon Dioxide Gas Sensor Market Size by Region (2020-2025)
- Table 44. North America Carbon Dioxide Gas Sensor Sales by Country (2020-2025) & (K Units)
- Table 45. North America Carbon Dioxide Gas Sensor Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Carbon Dioxide Gas Sensor Sales by Country (2020-2025) & (K Units)
- Table 47. Europe Carbon Dioxide Gas Sensor Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Carbon Dioxide Gas Sensor Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Carbon Dioxide Gas Sensor Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Carbon Dioxide Gas Sensor Sales by Country (2020-2025) & (K Units)
- Table 51. South America Carbon Dioxide Gas Sensor Market Size by Country (2020-2025) & (M USD)

- Table 52. Middle East and Africa Carbon Dioxide Gas Sensor Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Carbon Dioxide Gas Sensor Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Carbon Dioxide Gas Sensor Production (K Units) by Region(2020-2025)
- Table 55. Global Carbon Dioxide Gas Sensor Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Carbon Dioxide Gas Sensor Revenue Market Share by Region (2020-2025)
- Table 57. Global Carbon Dioxide Gas Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America Carbon Dioxide Gas Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 59. Europe Carbon Dioxide Gas Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 60. Japan Carbon Dioxide Gas Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 61. China Carbon Dioxide Gas Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 62. Amphenol Basic Information
- Table 63. Amphenol Carbon Dioxide Gas Sensor Product Overview
- Table 64. Amphenol Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 65. Amphenol Business Overview
- Table 66. Amphenol SWOT Analysis
- Table 67. Amphenol Recent Developments
- Table 68. Sensirion Basic Information
- Table 69. Sensirion Carbon Dioxide Gas Sensor Product Overview
- Table 70. Sensirion Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 71. Sensirion Business Overview
- Table 72. Sensirion SWOT Analysis
- Table 73. Sensirion Recent Developments
- Table 74. Murata Basic Information
- Table 75. Murata Carbon Dioxide Gas Sensor Product Overview
- Table 76. Murata Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. Murata Business Overview

- Table 78. Murata SWOT Analysis
- Table 79. Murata Recent Developments
- Table 80. Vaisala Basic Information
- Table 81. Vaisala Carbon Dioxide Gas Sensor Product Overview
- Table 82. Vaisala Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Vaisala Business Overview
- Table 84. Vaisala Recent Developments
- Table 85. Siemens Basic Information
- Table 86. Siemens Carbon Dioxide Gas Sensor Product Overview
- Table 87. Siemens Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Siemens Business Overview
- Table 89. Siemens Recent Developments
- Table 90. Honeywell Basic Information
- Table 91. Honeywell Carbon Dioxide Gas Sensor Product Overview
- Table 92. Honeywell Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Honeywell Business Overview
- Table 94. Honeywell Recent Developments
- Table 95. ELT SENSOR Corp Basic Information
- Table 96. ELT SENSOR Corp Carbon Dioxide Gas Sensor Product Overview
- Table 97. ELT SENSOR Corp Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. ELT SENSOR Corp Business Overview
- Table 99. ELT SENSOR Corp Recent Developments
- Table 100. E+E Elektronik Ges.m.b.H Basic Information
- Table 101. E+E Elektronik Ges.m.b.H Carbon Dioxide Gas Sensor Product Overview
- Table 102. E+E Elektronik Ges.m.b.H Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. E+E Elektronik Ges.m.b.H Business Overview
- Table 104. E+E Elektronik Ges.m.b.H Recent Developments
- Table 105. CUBIC Basic Information
- Table 106. CUBIC Carbon Dioxide Gas Sensor Product Overview
- Table 107. CUBIC Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. CUBIC Business Overview
- Table 109. CUBIC Recent Developments
- Table 110. Trane Basic Information

- Table 111. Trane Carbon Dioxide Gas Sensor Product Overview
- Table 112. Trane Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. Trane Business Overview
- Table 114. Trane Recent Developments
- Table 115. Asahi Kasei Microdevices (Senseair) Basic Information
- Table 116. Asahi Kasei Microdevices (Senseair) Carbon Dioxide Gas Sensor Product Overview
- Table 117. Asahi Kasei Microdevices (Senseair) Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Asahi Kasei Microdevices (Senseair) Business Overview
- Table 119. Asahi Kasei Microdevices (Senseair) Recent Developments
- Table 120. GSS (Gas Sensing Solutions) Basic Information
- Table 121. GSS (Gas Sensing Solutions) Carbon Dioxide Gas Sensor Product Overview
- Table 122. GSS (Gas Sensing Solutions) Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. GSS (Gas Sensing Solutions) Business Overview
- Table 124. GSS (Gas Sensing Solutions) Recent Developments
- Table 125. Digital Control System Basic Information
- Table 126. Digital Control System Carbon Dioxide Gas Sensor Product Overview
- Table 127. Digital Control System Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. Digital Control System Business Overview
- Table 129. Digital Control System Recent Developments
- Table 130. SOHA Tech Basic Information
- Table 131. SOHA Tech Carbon Dioxide Gas Sensor Product Overview
- Table 132. SOHA Tech Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. SOHA Tech Business Overview
- Table 134. SOHA Tech Recent Developments
- Table 135. SST Sensing Basic Information
- Table 136. SST Sensing Carbon Dioxide Gas Sensor Product Overview
- Table 137. SST Sensing Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 138. SST Sensing Business Overview
- Table 139. SST Sensing Recent Developments
- Table 140. Building Automation Products Inc (BAPI) Basic Information
- Table 141. Building Automation Products Inc (BAPI) Carbon Dioxide Gas Sensor

Product Overview

Table 142. Building Automation Products Inc (BAPI) Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 143. Building Automation Products Inc (BAPI) Business Overview

Table 144. Building Automation Products Inc (BAPI) Recent Developments

Table 145. Ati Airtest Technologies Basic Information

Table 146. Ati Airtest Technologies Carbon Dioxide Gas Sensor Product Overview

Table 147. Ati Airtest Technologies Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 148. Ati Airtest Technologies Business Overview

Table 149. Ati Airtest Technologies Recent Developments

Table 150. Winsen Basic Information

Table 151. Winsen Carbon Dioxide Gas Sensor Product Overview

Table 152. Winsen Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 153. Winsen Business Overview

Table 154. Winsen Recent Developments

Table 155. Figaro Basic Information

Table 156. Figaro Carbon Dioxide Gas Sensor Product Overview

Table 157. Figaro Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 158. Figaro Business Overview

Table 159. Figaro Recent Developments

Table 160. NIDS Basic Information

Table 161. NIDS Carbon Dioxide Gas Sensor Product Overview

Table 162. NIDS Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 163. NIDS Business Overview

Table 164. NIDS Recent Developments

Table 165. Aosong?Guangzhou) Electronics Basic Information

Table 166. Aosong?Guangzhou) Electronics Carbon Dioxide Gas Sensor Product Overview

Table 167. Aosong?Guangzhou) Electronics Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 168. Aosong?Guangzhou) Electronics Business Overview

Table 169. Aosong?Guangzhou) Electronics Recent Developments

Table 170. Sencoch Basic Information

Table 171. Sencoch Carbon Dioxide Gas Sensor Product Overview

Table 172. Sencoch Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD),

Price (USD/Unit) and Gross Margin (2020-2025)

Table 173. Sencoch Business Overview

Table 174. Sencoch Recent Developments

Table 175. EC Sense Basic Information

Table 176. EC Sense Carbon Dioxide Gas Sensor Product Overview

Table 177. EC Sense Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 178. EC Sense Business Overview

Table 179. EC Sense Recent Developments

Table 180. Infineon Basic Information

Table 181. Infineon Carbon Dioxide Gas Sensor Product Overview

Table 182. Infineon Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 183. Infineon Business Overview

Table 184. Infineon Recent Developments

Table 185. ASAIR Basic Information

Table 186. ASAIR Carbon Dioxide Gas Sensor Product Overview

Table 187. ASAIR Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 188. ASAIR Business Overview

Table 189. ASAIR Recent Developments

Table 190. Hoto Intelligent Control Technology Basic Information

Table 191. Hoto Intelligent Control Technology Carbon Dioxide Gas Sensor Product Overview

Table 192. Hoto Intelligent Control Technology Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 193. Hoto Intelligent Control Technology Business Overview

Table 194. Hoto Intelligent Control Technology Recent Developments

Table 195. Tempus Basic Information

Table 196. Tempus Carbon Dioxide Gas Sensor Product Overview

Table 197. Tempus Carbon Dioxide Gas Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 198. Tempus Business Overview

Table 199. Tempus Recent Developments

Table 200. Global Carbon Dioxide Gas Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 201. Global Carbon Dioxide Gas Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 202. North America Carbon Dioxide Gas Sensor Sales Forecast by Country

(2026-2035) & (K Units)

Table 203. North America Carbon Dioxide Gas Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 204. Europe Carbon Dioxide Gas Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 205. Europe Carbon Dioxide Gas Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 206. Asia Pacific Carbon Dioxide Gas Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 207. Asia Pacific Carbon Dioxide Gas Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 208. South America Carbon Dioxide Gas Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 209. South America Carbon Dioxide Gas Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 210. Middle East and Africa Carbon Dioxide Gas Sensor Sales Forecast by Country (2026-2035) & (Units)

Table 211. Middle East and Africa Carbon Dioxide Gas Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 212. Global Carbon Dioxide Gas Sensor Sales Forecast by Type (2026-2035) & (K Units)

Table 213. Global Carbon Dioxide Gas Sensor Market Size Forecast by Type (2026-2035) & (M USD)

Table 214. Global Carbon Dioxide Gas Sensor Price Forecast by Type (2026-2035) & (USD/Unit)

Table 215. Global Carbon Dioxide Gas Sensor Sales (K Units) Forecast by Application (2026-2035)

Table 216. Global Carbon Dioxide Gas Sensor Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Carbon Dioxide Gas Sensor
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Carbon Dioxide Gas Sensor Market Size (M USD), 2025-2035
- Figure 5. Global Carbon Dioxide Gas Sensor Market Size (M USD) (2020-2035)
- Figure 6. Global Carbon Dioxide Gas Sensor Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Carbon Dioxide Gas Sensor Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Carbon Dioxide Gas Sensor Product Life Cycle
- Figure 13. Carbon Dioxide Gas Sensor Sales Share by Manufacturers in 2025
- Figure 14. Global Carbon Dioxide Gas Sensor Revenue Share by Manufacturers in 2025
- Figure 15. Carbon Dioxide Gas Sensor Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Carbon Dioxide Gas Sensor Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Carbon Dioxide Gas Sensor Revenue in 2025
- Figure 18. Industry Chain Map of Carbon Dioxide Gas Sensor
- Figure 19. Global Carbon Dioxide Gas Sensor Market PEST Analysis
- Figure 20. Global Carbon Dioxide Gas Sensor Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Carbon Dioxide Gas Sensor Market Share by Type
- Figure 27. Sales Market Share of Carbon Dioxide Gas Sensor by Type (2020-2025)
- Figure 28. Sales Market Share of Carbon Dioxide Gas Sensor by Type in 2025
- Figure 29. Market Share of Carbon Dioxide Gas Sensor by Type (2020-2025)
- Figure 30. Market Share of Carbon Dioxide Gas Sensor by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global Carbon Dioxide Gas Sensor Market Share by Application
- Figure 33. Global Carbon Dioxide Gas Sensor Sales Market Share by Application (2020-2025)
- Figure 34. Global Carbon Dioxide Gas Sensor Sales Market Share by Application in 2025
- Figure 35. Global Carbon Dioxide Gas Sensor Market Share by Application (2020-2025)
- Figure 36. Global Carbon Dioxide Gas Sensor Market Share by Application in 2025
- Figure 37. Global Carbon Dioxide Gas Sensor Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Carbon Dioxide Gas Sensor Sales Market Share by Region (2020-2025)
- Figure 39. Global Carbon Dioxide Gas Sensor Market Size by Region (2020-2025)
- Figure 40. North America Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Carbon Dioxide Gas Sensor Sales Market Share by Country in 2024
- Figure 43. North America Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Carbon Dioxide Gas Sensor Market Size by Country in 2024
- Figure 45. U.S. Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Carbon Dioxide Gas Sensor Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Carbon Dioxide Gas Sensor Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Carbon Dioxide Gas Sensor Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Carbon Dioxide Gas Sensor Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe Carbon Dioxide Gas Sensor Sales Market Share by Country in 2024
- Figure 53. Europe Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe Carbon Dioxide Gas Sensor Market Size by Country in 2024

Figure 55. Germany Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Carbon Dioxide Gas Sensor Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Carbon Dioxide Gas Sensor Sales Market Share by Region in 2024

Figure 67. Asia Pacific Carbon Dioxide Gas Sensor Market Size by Region in 2024

Figure 68. China Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025)

& (M USD)

Figure 76. Southeast Asia Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Carbon Dioxide Gas Sensor Sales and Growth Rate (K Units)

Figure 79. South America Carbon Dioxide Gas Sensor Sales Market Share by Country in 2024

Figure 80. South America Carbon Dioxide Gas Sensor Market Size and Growth Rate (M USD)

Figure 81. South America Carbon Dioxide Gas Sensor Market Size by Country in 2024

Figure 82. Brazil Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Carbon Dioxide Gas Sensor Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Carbon Dioxide Gas Sensor Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Carbon Dioxide Gas Sensor Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Carbon Dioxide Gas Sensor Market Size by Region in 2024

Figure 92. Saudi Arabia Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Carbon Dioxide Gas Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Carbon Dioxide Gas Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Carbon Dioxide Gas Sensor Production Market Share by Region (2020-2025)

Figure 103. North America Carbon Dioxide Gas Sensor Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Carbon Dioxide Gas Sensor Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Carbon Dioxide Gas Sensor Production (K Units) Growth Rate (2020-2025)

Figure 106. China Carbon Dioxide Gas Sensor Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Carbon Dioxide Gas Sensor Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Carbon Dioxide Gas Sensor Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Carbon Dioxide Gas Sensor Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Carbon Dioxide Gas Sensor Market Share Forecast by Type (2026-2035)

Figure 111. Global Carbon Dioxide Gas Sensor Sales Forecast by Application (2026-2035)

Figure 112. Global Carbon Dioxide Gas Sensor Market Share Forecast by Application (2026-2035)

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