

Global Advanced CO2 Sensors Market Research Report 2024(Status and Outlook)

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Abstracts

Report Overview:

A carbon dioxide (CO₂) sensor is a device used to measure the concentration of carbon dioxide gas in the atmosphere. The Advanced CO₂ Sensor is an instrument for the measurement of carbon dioxide gas. The most common principles for CO₂ sensors are infrared gas sensors (NDIR) and chemical gas sensors. Measuring carbon dioxide is important in monitoring indoor air quality, the function of the lungs in the form of a capnograph device, and many industrial processes. NDIR CO₂ sensors detect and monitor CO₂ in the air based on the absorption of infrared (IR) light at a given wavelength. An IR lamp directs light waves through a tube towards a filter. The amount of IR light that passes the filter is measured by an IR light detector. Chemical CO₂ gas sensors with sensitive layers based on polymer- or heteropolysiloxane have the principal advantage of very low energy consumption, and can be reduced in size to fit into microelectronic-based systems. On the downside, short- and long term drift effects as well as a rather low overall lifetime are major obstacles when compared with the NDIR measurement principle. Most CO₂ sensors are fully calibrated prior to shipping from the factory. Over time, the zero point of the sensor needs to be calibrated to maintain the long term stability of the sensor.

The Global Advanced CO₂ Sensors Market Size was estimated at USD 483.87 million in 2023 and is projected to reach USD 702.07 million by 2029, exhibiting a CAGR of 6.40% during the forecast period.

This report provides a deep insight into the global Advanced CO₂ Sensors market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche

market, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Advanced CO2 Sensors Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Advanced CO2 Sensors market in any manner.

Global Advanced CO2 Sensors Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

Honeywell

Siemens

Vaisala

SenseAir (Asahi Kasei)

Murata

Amphenol

Sensirion

Cubic Sensor and Instrument

Trane

E+E Elektronik

Figaro

Gas Sensing Solutions

Digital Control Systems

Zhengzhou Winsen Electronics

ELT SENSOR

Market Segmentation (by Type)

NDIR CO2 Sensor

Chemical CO2 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 Advanced CO2 Sensors Market

Overview of the regional outlook of the Advanced CO2 Sensors Market:

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 (USD Billion) 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

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

Note: this report may need to undergo a final check or review and this could take about 48 hours.

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 Advanced CO2 Sensors 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 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 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Advanced CO2 Sensors
- 1.2 Key Market Segments
 - 1.2.1 Advanced CO2 Sensors Segment by Type
 - 1.2.2 Advanced CO2 Sensors 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 ADVANCED CO2 SENSORS MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Advanced CO2 Sensors Market Size (M USD) Estimates and Forecasts (2019-2030)
 - 2.1.2 Global Advanced CO2 Sensors Sales Estimates and Forecasts (2019-2030)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 ADVANCED CO2 SENSORS MARKET COMPETITIVE LANDSCAPE

- 3.1 Global Advanced CO2 Sensors Sales by Manufacturers (2019-2024)
- 3.2 Global Advanced CO2 Sensors Revenue Market Share by Manufacturers (2019-2024)
- 3.3 Advanced CO2 Sensors Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.4 Global Advanced CO2 Sensors Average Price by Manufacturers (2019-2024)
- 3.5 Manufacturers Advanced CO2 Sensors Sales Sites, Area Served, Product Type
- 3.6 Advanced CO2 Sensors Market Competitive Situation and Trends
 - 3.6.1 Advanced CO2 Sensors Market Concentration Rate
 - 3.6.2 Global 5 and 10 Largest Advanced CO2 Sensors Players Market Share by Revenue
 - 3.6.3 Mergers & Acquisitions, Expansion

4 ADVANCED CO2 SENSORS INDUSTRY CHAIN ANALYSIS

- 4.1 Advanced CO2 Sensors 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 ADVANCED CO2 SENSORS MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Market Restraints
- 5.5 Industry News
 - 5.5.1 New Product Developments
 - 5.5.2 Mergers & Acquisitions
 - 5.5.3 Expansions
 - 5.5.4 Collaboration/Supply Contracts
- 5.6 Industry Policies

6 ADVANCED CO2 SENSORS MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Advanced CO2 Sensors Sales Market Share by Type (2019-2024)
- 6.3 Global Advanced CO2 Sensors Market Size Market Share by Type (2019-2024)
- 6.4 Global Advanced CO2 Sensors Price by Type (2019-2024)

7 ADVANCED CO2 SENSORS MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Advanced CO2 Sensors Market Sales by Application (2019-2024)
- 7.3 Global Advanced CO2 Sensors Market Size (M USD) by Application (2019-2024)
- 7.4 Global Advanced CO2 Sensors Sales Growth Rate by Application (2019-2024)

8 ADVANCED CO2 SENSORS MARKET SEGMENTATION BY REGION

- 8.1 Global Advanced CO2 Sensors Sales by Region
 - 8.1.1 Global Advanced CO2 Sensors Sales by Region
 - 8.1.2 Global Advanced CO2 Sensors Sales Market Share by Region
- 8.2 North America

8.2.1 North America Advanced CO2 Sensors Sales by Country

8.2.2 U.S.

8.2.3 Canada

8.2.4 Mexico

8.3 Europe

8.3.1 Europe Advanced CO2 Sensors Sales by Country

8.3.2 Germany

8.3.3 France

8.3.4 U.K.

8.3.5 Italy

8.3.6 Russia

8.4 Asia Pacific

8.4.1 Asia Pacific Advanced CO2 Sensors Sales by Region

8.4.2 China

8.4.3 Japan

8.4.4 South Korea

8.4.5 India

8.4.6 Southeast Asia

8.5 South America

8.5.1 South America Advanced CO2 Sensors Sales by Country

8.5.2 Brazil

8.5.3 Argentina

8.5.4 Columbia

8.6 Middle East and Africa

8.6.1 Middle East and Africa Advanced CO2 Sensors Sales by Region

8.6.2 Saudi Arabia

8.6.3 UAE

8.6.4 Egypt

8.6.5 Nigeria

8.6.6 South Africa

9 KEY COMPANIES PROFILE

9.1 Honeywell

9.1.1 Honeywell Advanced CO2 Sensors Basic Information

9.1.2 Honeywell Advanced CO2 Sensors Product Overview

9.1.3 Honeywell Advanced CO2 Sensors Product Market Performance

9.1.4 Honeywell Business Overview

9.1.5 Honeywell Advanced CO2 Sensors SWOT Analysis

- 9.1.6 Honeywell Recent Developments
- 9.2 Siemens
 - 9.2.1 Siemens Advanced CO2 Sensors Basic Information
 - 9.2.2 Siemens Advanced CO2 Sensors Product Overview
 - 9.2.3 Siemens Advanced CO2 Sensors Product Market Performance
 - 9.2.4 Siemens Business Overview
 - 9.2.5 Siemens Advanced CO2 Sensors SWOT Analysis
 - 9.2.6 Siemens Recent Developments
- 9.3 Vaisala
 - 9.3.1 Vaisala Advanced CO2 Sensors Basic Information
 - 9.3.2 Vaisala Advanced CO2 Sensors Product Overview
 - 9.3.3 Vaisala Advanced CO2 Sensors Product Market Performance
 - 9.3.4 Vaisala Advanced CO2 Sensors SWOT Analysis
 - 9.3.5 Vaisala Business Overview
 - 9.3.6 Vaisala Recent Developments
- 9.4 SenseAir (Asahi Kasei)
 - 9.4.1 SenseAir (Asahi Kasei) Advanced CO2 Sensors Basic Information
 - 9.4.2 SenseAir (Asahi Kasei) Advanced CO2 Sensors Product Overview
 - 9.4.3 SenseAir (Asahi Kasei) Advanced CO2 Sensors Product Market Performance
 - 9.4.4 SenseAir (Asahi Kasei) Business Overview
 - 9.4.5 SenseAir (Asahi Kasei) Recent Developments
- 9.5 Murata
 - 9.5.1 Murata Advanced CO2 Sensors Basic Information
 - 9.5.2 Murata Advanced CO2 Sensors Product Overview
 - 9.5.3 Murata Advanced CO2 Sensors Product Market Performance
 - 9.5.4 Murata Business Overview
 - 9.5.5 Murata Recent Developments
- 9.6 Amphenol
 - 9.6.1 Amphenol Advanced CO2 Sensors Basic Information
 - 9.6.2 Amphenol Advanced CO2 Sensors Product Overview
 - 9.6.3 Amphenol Advanced CO2 Sensors Product Market Performance
 - 9.6.4 Amphenol Business Overview
 - 9.6.5 Amphenol Recent Developments
- 9.7 Sensirion
 - 9.7.1 Sensirion Advanced CO2 Sensors Basic Information
 - 9.7.2 Sensirion Advanced CO2 Sensors Product Overview
 - 9.7.3 Sensirion Advanced CO2 Sensors Product Market Performance
 - 9.7.4 Sensirion Business Overview
 - 9.7.5 Sensirion Recent Developments

9.8 Cubic Sensor and Instrument

9.8.1 Cubic Sensor and Instrument Advanced CO2 Sensors Basic Information

9.8.2 Cubic Sensor and Instrument Advanced CO2 Sensors Product Overview

9.8.3 Cubic Sensor and Instrument Advanced CO2 Sensors Product Market

Performance

9.8.4 Cubic Sensor and Instrument Business Overview

9.8.5 Cubic Sensor and Instrument Recent Developments

9.9 Trane

9.9.1 Trane Advanced CO2 Sensors Basic Information

9.9.2 Trane Advanced CO2 Sensors Product Overview

9.9.3 Trane Advanced CO2 Sensors Product Market Performance

9.9.4 Trane Business Overview

9.9.5 Trane Recent Developments

9.10 E+E Elektronik

9.10.1 E+E Elektronik Advanced CO2 Sensors Basic Information

9.10.2 E+E Elektronik Advanced CO2 Sensors Product Overview

9.10.3 E+E Elektronik Advanced CO2 Sensors Product Market Performance

9.10.4 E+E Elektronik Business Overview

9.10.5 E+E Elektronik Recent Developments

9.11 Figaro

9.11.1 Figaro Advanced CO2 Sensors Basic Information

9.11.2 Figaro Advanced CO2 Sensors Product Overview

9.11.3 Figaro Advanced CO2 Sensors Product Market Performance

9.11.4 Figaro Business Overview

9.11.5 Figaro Recent Developments

9.12 Gas Sensing Solutions

9.12.1 Gas Sensing Solutions Advanced CO2 Sensors Basic Information

9.12.2 Gas Sensing Solutions Advanced CO2 Sensors Product Overview

9.12.3 Gas Sensing Solutions Advanced CO2 Sensors Product Market Performance

9.12.4 Gas Sensing Solutions Business Overview

9.12.5 Gas Sensing Solutions Recent Developments

9.13 Digital Control Systems

9.13.1 Digital Control Systems Advanced CO2 Sensors Basic Information

9.13.2 Digital Control Systems Advanced CO2 Sensors Product Overview

9.13.3 Digital Control Systems Advanced CO2 Sensors Product Market Performance

9.13.4 Digital Control Systems Business Overview

9.13.5 Digital Control Systems Recent Developments

9.14 Zhengzhou Winsen Electronics

9.14.1 Zhengzhou Winsen Electronics Advanced CO2 Sensors Basic Information

- 9.14.2 Zhengzhou Winsen Electronics Advanced CO2 Sensors Product Overview
- 9.14.3 Zhengzhou Winsen Electronics Advanced CO2 Sensors Product Market Performance
- 9.14.4 Zhengzhou Winsen Electronics Business Overview
- 9.14.5 Zhengzhou Winsen Electronics Recent Developments
- 9.15 ELT SENSOR
 - 9.15.1 ELT SENSOR Advanced CO2 Sensors Basic Information
 - 9.15.2 ELT SENSOR Advanced CO2 Sensors Product Overview
 - 9.15.3 ELT SENSOR Advanced CO2 Sensors Product Market Performance
 - 9.15.4 ELT SENSOR Business Overview
 - 9.15.5 ELT SENSOR Recent Developments

10 ADVANCED CO2 SENSORS MARKET FORECAST BY REGION

- 10.1 Global Advanced CO2 Sensors Market Size Forecast
- 10.2 Global Advanced CO2 Sensors Market Forecast by Region
 - 10.2.1 North America Market Size Forecast by Country
 - 10.2.2 Europe Advanced CO2 Sensors Market Size Forecast by Country
 - 10.2.3 Asia Pacific Advanced CO2 Sensors Market Size Forecast by Region
 - 10.2.4 South America Advanced CO2 Sensors Market Size Forecast by Country
 - 10.2.5 Middle East and Africa Forecasted Consumption of Advanced CO2 Sensors by Country

11 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2030)

- 11.1 Global Advanced CO2 Sensors Market Forecast by Type (2025-2030)
 - 11.1.1 Global Forecasted Sales of Advanced CO2 Sensors by Type (2025-2030)
 - 11.1.2 Global Advanced CO2 Sensors Market Size Forecast by Type (2025-2030)
 - 11.1.3 Global Forecasted Price of Advanced CO2 Sensors by Type (2025-2030)
- 11.2 Global Advanced CO2 Sensors Market Forecast by Application (2025-2030)
 - 11.2.1 Global Advanced CO2 Sensors Sales (K Units) Forecast by Application
 - 11.2.2 Global Advanced CO2 Sensors Market Size (M USD) Forecast by Application (2025-2030)

12 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Advanced CO2 Sensors Market Size Comparison by Region (M USD)

Table 5. Global Advanced CO2 Sensors Sales (K Units) by Manufacturers (2019-2024)

Table 6. Global Advanced CO2 Sensors Sales Market Share by Manufacturers (2019-2024)

Table 7. Global Advanced CO2 Sensors Revenue (M USD) by Manufacturers (2019-2024)

Table 8. Global Advanced CO2 Sensors Revenue Share by Manufacturers (2019-2024)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Advanced CO2 Sensors as of 2022)

Table 10. Global Market Advanced CO2 Sensors Average Price (USD/Unit) of Key Manufacturers (2019-2024)

Table 11. Manufacturers Advanced CO2 Sensors Sales Sites and Area Served

Table 12. Manufacturers Advanced CO2 Sensors Product Type

Table 13. Global Advanced CO2 Sensors Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Industry Chain Map of Advanced CO2 Sensors

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. Advanced CO2 Sensors Market Challenges

Table 22. Global Advanced CO2 Sensors Sales by Type (K Units)

Table 23. Global Advanced CO2 Sensors Market Size by Type (M USD)

Table 24. Global Advanced CO2 Sensors Sales (K Units) by Type (2019-2024)

Table 25. Global Advanced CO2 Sensors Sales Market Share by Type (2019-2024)

Table 26. Global Advanced CO2 Sensors Market Size (M USD) by Type (2019-2024)

Table 27. Global Advanced CO2 Sensors Market Size Share by Type (2019-2024)

Table 28. Global Advanced CO2 Sensors Price (USD/Unit) by Type (2019-2024)

Table 29. Global Advanced CO2 Sensors Sales (K Units) by Application

Table 30. Global Advanced CO2 Sensors Market Size by Application

- Table 31. Global Advanced CO2 Sensors Sales by Application (2019-2024) & (K Units)
- Table 32. Global Advanced CO2 Sensors Sales Market Share by Application (2019-2024)
- Table 33. Global Advanced CO2 Sensors Sales by Application (2019-2024) & (M USD)
- Table 34. Global Advanced CO2 Sensors Market Share by Application (2019-2024)
- Table 35. Global Advanced CO2 Sensors Sales Growth Rate by Application (2019-2024)
- Table 36. Global Advanced CO2 Sensors Sales by Region (2019-2024) & (K Units)
- Table 37. Global Advanced CO2 Sensors Sales Market Share by Region (2019-2024)
- Table 38. North America Advanced CO2 Sensors Sales by Country (2019-2024) & (K Units)
- Table 39. Europe Advanced CO2 Sensors Sales by Country (2019-2024) & (K Units)
- Table 40. Asia Pacific Advanced CO2 Sensors Sales by Region (2019-2024) & (K Units)
- Table 41. South America Advanced CO2 Sensors Sales by Country (2019-2024) & (K Units)
- Table 42. Middle East and Africa Advanced CO2 Sensors Sales by Region (2019-2024) & (K Units)
- Table 43. Honeywell Advanced CO2 Sensors Basic Information
- Table 44. Honeywell Advanced CO2 Sensors Product Overview
- Table 45. Honeywell Advanced CO2 Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 46. Honeywell Business Overview
- Table 47. Honeywell Advanced CO2 Sensors SWOT Analysis
- Table 48. Honeywell Recent Developments
- Table 49. Siemens Advanced CO2 Sensors Basic Information
- Table 50. Siemens Advanced CO2 Sensors Product Overview
- Table 51. Siemens Advanced CO2 Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 52. Siemens Business Overview
- Table 53. Siemens Advanced CO2 Sensors SWOT Analysis
- Table 54. Siemens Recent Developments
- Table 55. Vaisala Advanced CO2 Sensors Basic Information
- Table 56. Vaisala Advanced CO2 Sensors Product Overview
- Table 57. Vaisala Advanced CO2 Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 58. Vaisala Advanced CO2 Sensors SWOT Analysis
- Table 59. Vaisala Business Overview
- Table 60. Vaisala Recent Developments

- Table 61. SenseAir (Asahi Kasei) Advanced CO2 Sensors Basic Information
- Table 62. SenseAir (Asahi Kasei) Advanced CO2 Sensors Product Overview
- Table 63. SenseAir (Asahi Kasei) Advanced CO2 Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 64. SenseAir (Asahi Kasei) Business Overview
- Table 65. SenseAir (Asahi Kasei) Recent Developments
- Table 66. Murata Advanced CO2 Sensors Basic Information
- Table 67. Murata Advanced CO2 Sensors Product Overview
- Table 68. Murata Advanced CO2 Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 69. Murata Business Overview
- Table 70. Murata Recent Developments
- Table 71. Amphenol Advanced CO2 Sensors Basic Information
- Table 72. Amphenol Advanced CO2 Sensors Product Overview
- Table 73. Amphenol Advanced CO2 Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 74. Amphenol Business Overview
- Table 75. Amphenol Recent Developments
- Table 76. Sensirion Advanced CO2 Sensors Basic Information
- Table 77. Sensirion Advanced CO2 Sensors Product Overview
- Table 78. Sensirion Advanced CO2 Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 79. Sensirion Business Overview
- Table 80. Sensirion Recent Developments
- Table 81. Cubic Sensor and Instrument Advanced CO2 Sensors Basic Information
- Table 82. Cubic Sensor and Instrument Advanced CO2 Sensors Product Overview
- Table 83. Cubic Sensor and Instrument Advanced CO2 Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 84. Cubic Sensor and Instrument Business Overview
- Table 85. Cubic Sensor and Instrument Recent Developments
- Table 86. Trane Advanced CO2 Sensors Basic Information
- Table 87. Trane Advanced CO2 Sensors Product Overview
- Table 88. Trane Advanced CO2 Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 89. Trane Business Overview
- Table 90. Trane Recent Developments
- Table 91. E+E Elektronik Advanced CO2 Sensors Basic Information
- Table 92. E+E Elektronik Advanced CO2 Sensors Product Overview
- Table 93. E+E Elektronik Advanced CO2 Sensors Sales (K Units), Revenue (M USD),

Price (USD/Unit) and Gross Margin (2019-2024)

Table 94. E+E Elektronik Business Overview

Table 95. E+E Elektronik Recent Developments

Table 96. Figaro Advanced CO2 Sensors Basic Information

Table 97. Figaro Advanced CO2 Sensors Product Overview

Table 98. Figaro Advanced CO2 Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 99. Figaro Business Overview

Table 100. Figaro Recent Developments

Table 101. Gas Sensing Solutions Advanced CO2 Sensors Basic Information

Table 102. Gas Sensing Solutions Advanced CO2 Sensors Product Overview

Table 103. Gas Sensing Solutions Advanced CO2 Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 104. Gas Sensing Solutions Business Overview

Table 105. Gas Sensing Solutions Recent Developments

Table 106. Digital Control Systems Advanced CO2 Sensors Basic Information

Table 107. Digital Control Systems Advanced CO2 Sensors Product Overview

Table 108. Digital Control Systems Advanced CO2 Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 109. Digital Control Systems Business Overview

Table 110. Digital Control Systems Recent Developments

Table 111. Zhengzhou Winsen Electronics Advanced CO2 Sensors Basic Information

Table 112. Zhengzhou Winsen Electronics Advanced CO2 Sensors Product Overview

Table 113. Zhengzhou Winsen Electronics Advanced CO2 Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 114. Zhengzhou Winsen Electronics Business Overview

Table 115. Zhengzhou Winsen Electronics Recent Developments

Table 116. ELT SENSOR Advanced CO2 Sensors Basic Information

Table 117. ELT SENSOR Advanced CO2 Sensors Product Overview

Table 118. ELT SENSOR Advanced CO2 Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 119. ELT SENSOR Business Overview

Table 120. ELT SENSOR Recent Developments

Table 121. Global Advanced CO2 Sensors Sales Forecast by Region (2025-2030) & (K Units)

Table 122. Global Advanced CO2 Sensors Market Size Forecast by Region (2025-2030) & (M USD)

Table 123. North America Advanced CO2 Sensors Sales Forecast by Country (2025-2030) & (K Units)

Table 124. North America Advanced CO2 Sensors Market Size Forecast by Country (2025-2030) & (M USD)

Table 125. Europe Advanced CO2 Sensors Sales Forecast by Country (2025-2030) & (K Units)

Table 126. Europe Advanced CO2 Sensors Market Size Forecast by Country (2025-2030) & (M USD)

Table 127. Asia Pacific Advanced CO2 Sensors Sales Forecast by Region (2025-2030) & (K Units)

Table 128. Asia Pacific Advanced CO2 Sensors Market Size Forecast by Region (2025-2030) & (M USD)

Table 129. South America Advanced CO2 Sensors Sales Forecast by Country (2025-2030) & (K Units)

Table 130. South America Advanced CO2 Sensors Market Size Forecast by Country (2025-2030) & (M USD)

Table 131. Middle East and Africa Advanced CO2 Sensors Consumption Forecast by Country (2025-2030) & (Units)

Table 132. Middle East and Africa Advanced CO2 Sensors Market Size Forecast by Country (2025-2030) & (M USD)

Table 133. Global Advanced CO2 Sensors Sales Forecast by Type (2025-2030) & (K Units)

Table 134. Global Advanced CO2 Sensors Market Size Forecast by Type (2025-2030) & (M USD)

Table 135. Global Advanced CO2 Sensors Price Forecast by Type (2025-2030) & (USD/Unit)

Table 136. Global Advanced CO2 Sensors Sales (K Units) Forecast by Application (2025-2030)

Table 137. Global Advanced CO2 Sensors Market Size Forecast by Application (2025-2030) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Advanced CO2 Sensors
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Advanced CO2 Sensors Market Size (M USD), 2019-2030
- Figure 5. Global Advanced CO2 Sensors Market Size (M USD) (2019-2030)
- Figure 6. Global Advanced CO2 Sensors Sales (K Units) & (2019-2030)
- 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. Advanced CO2 Sensors Market Size by Country (M USD)
- Figure 11. Advanced CO2 Sensors Sales Share by Manufacturers in 2023
- Figure 12. Global Advanced CO2 Sensors Revenue Share by Manufacturers in 2023
- Figure 13. Advanced CO2 Sensors Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2023
- Figure 14. Global Market Advanced CO2 Sensors Average Price (USD/Unit) of Key Manufacturers in 2023
- Figure 15. The Global 5 and 10 Largest Players: Market Share by Advanced CO2 Sensors Revenue in 2023
- Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 17. Global Advanced CO2 Sensors Market Share by Type
- Figure 18. Sales Market Share of Advanced CO2 Sensors by Type (2019-2024)
- Figure 19. Sales Market Share of Advanced CO2 Sensors by Type in 2023
- Figure 20. Market Size Share of Advanced CO2 Sensors by Type (2019-2024)
- Figure 21. Market Size Market Share of Advanced CO2 Sensors by Type in 2023
- Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 23. Global Advanced CO2 Sensors Market Share by Application
- Figure 24. Global Advanced CO2 Sensors Sales Market Share by Application (2019-2024)
- Figure 25. Global Advanced CO2 Sensors Sales Market Share by Application in 2023
- Figure 26. Global Advanced CO2 Sensors Market Share by Application (2019-2024)
- Figure 27. Global Advanced CO2 Sensors Market Share by Application in 2023
- Figure 28. Global Advanced CO2 Sensors Sales Growth Rate by Application (2019-2024)
- Figure 29. Global Advanced CO2 Sensors Sales Market Share by Region (2019-2024)
- Figure 30. North America Advanced CO2 Sensors Sales and Growth Rate (2019-2024)

& (K Units)

Figure 31. North America Advanced CO2 Sensors Sales Market Share by Country in 2023

Figure 32. U.S. Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 33. Canada Advanced CO2 Sensors Sales (K Units) and Growth Rate (2019-2024)

Figure 34. Mexico Advanced CO2 Sensors Sales (Units) and Growth Rate (2019-2024)

Figure 35. Europe Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 36. Europe Advanced CO2 Sensors Sales Market Share by Country in 2023

Figure 37. Germany Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 38. France Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 39. U.K. Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 40. Italy Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 41. Russia Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 42. Asia Pacific Advanced CO2 Sensors Sales and Growth Rate (K Units)

Figure 43. Asia Pacific Advanced CO2 Sensors Sales Market Share by Region in 2023

Figure 44. China Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 45. Japan Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 46. South Korea Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 47. India Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 48. Southeast Asia Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 49. South America Advanced CO2 Sensors Sales and Growth Rate (K Units)

Figure 50. South America Advanced CO2 Sensors Sales Market Share by Country in 2023

Figure 51. Brazil Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 52. Argentina Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K

Units)

Figure 53. Columbia Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 54. Middle East and Africa Advanced CO2 Sensors Sales and Growth Rate (K Units)

Figure 55. Middle East and Africa Advanced CO2 Sensors Sales Market Share by Region in 2023

Figure 56. Saudi Arabia Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 57. UAE Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 58. Egypt Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 59. Nigeria Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 60. South Africa Advanced CO2 Sensors Sales and Growth Rate (2019-2024) & (K Units)

Figure 61. Global Advanced CO2 Sensors Sales Forecast by Volume (2019-2030) & (K Units)

Figure 62. Global Advanced CO2 Sensors Market Size Forecast by Value (2019-2030) & (M USD)

Figure 63. Global Advanced CO2 Sensors Sales Market Share Forecast by Type (2025-2030)

Figure 64. Global Advanced CO2 Sensors Market Share Forecast by Type (2025-2030)

Figure 65. Global Advanced CO2 Sensors Sales Forecast by Application (2025-2030)

Figure 66. Global Advanced CO2 Sensors Market Share Forecast by Application (2025-2030)

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