

Global Compact CO2 Sensor Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Compact CO2 Sensor Module market size was valued at US\$ 284 million in 2025 and is forecast to a readjusted size of US\$ 364 million by 2032 with a CAGR of 3.1% during review period.

In 2025, global Compact CO2 Sensor Module production reached approximately 6,100 k units?with an average global market price of around US\$ 45 per unit, and a gross profit margin of approximately 10%-30%. Compact CO2 Sensor Modules are small-form-factor sensing units designed to measure carbon dioxide concentration for air quality, ventilation control, safety monitoring, and process applications. Most modules use non-dispersive infrared (NDIR) technology with an IR source, optical chamber, detector, and signal-processing electronics integrated into a miniaturized housing. They provide digital or analog outputs and are used in HVAC systems, air purifiers, smart buildings, greenhouses, incubators, and industrial safety equipment. Key performance metrics include measurement range, accuracy, response time, long-term drift, temperature compensation, and resistance to humidity and contamination. Low power consumption and easy integration are critical for IoT and embedded applications.

The industrial chain of Compact CO2 Sensor Modules includes upstream components such as IR emitters, photodiodes or thermopile detectors, optical filters, optical cavities, PCBs, microcontrollers, MEMS components, housings, connectors, and calibration gases. Midstream manufacturing covers optical assembly, PCB assembly, firmware programming, calibration, temperature compensation tuning, aging tests, and functional verification. Downstream users include HVAC OEMs, building automation integrators, air quality monitor brands, appliance manufacturers, agricultural equipment suppliers, and industrial safety system providers. Services include calibration support, firmware

updates, integration guidance, and lifecycle technical support.

This report is a detailed and comprehensive analysis for global Compact CO2 Sensor Module 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 Compact CO2 Sensor Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Compact CO2 Sensor Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Compact CO2 Sensor Module market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Compact CO2 Sensor Module market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 Compact CO2 Sensor Module

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Compact CO2 Sensor Module 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 Figaro, Amphenol, Vaisala, Senseair, Tongdy, sensirion, E+E Elektronik, Gas Sensing Solutions, Airwave Electronics, Dynament, etc.

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

Market Segmentation

Compact CO2 Sensor Module market is split by Type and by Application. For the period 2021-2032, 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 CO2 Sensor

Chemical CO2 Sensor

Others

Market segment by Environment

Indoor

Outdoor

Market segment by Application

Automotive

Industrial

Building Automation

Others

Major players covered

Figaro

Amphenol

Vaisala

Senseair

Tongdy

sensirion

E+E Elektronik

Gas Sensing Solutions

Airwave Electronics

Dynament

ELT SENSOR

Winsen

SST Sensing

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 Compact CO2 Sensor Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Compact CO2 Sensor Module, with price, sales quantity, revenue, and global market share of Compact CO2 Sensor Module from 2021 to 2026.

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

Chapter 4, the Compact CO2 Sensor Module breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Compact CO2 Sensor Module market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Compact CO2 Sensor Module.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Silver-based Active Brazing Alloys Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 AgCuTi

1.3.3 AgCuInTi

1.3.4 AgCuSnTi

1.3.5 Others

1.4 Market Analysis by Silver Content

1.4.1 Overview: Global Silver-based Active Brazing Alloys Consumption Value by Silver Content: 2021 Versus 2025 Versus 2032

1.4.2 Ag Content 60%

1.5 Market Analysis by Shape

1.5.1 Overview: Global Silver-based Active Brazing Alloys Consumption Value by Shape: 2021 Versus 2025 Versus 2032

1.5.2 Powder

1.5.3 Paste

1.6 Market Analysis by Application

1.6.1 Overview: Global Silver-based Active Brazing Alloys Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 SiN AMB Substrate

1.6.3 AlN AMB Substrate

1.7 Global Silver-based Active Brazing Alloys Market Size & Forecast

1.7.1 Global Silver-based Active Brazing Alloys Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Silver-based Active Brazing Alloys Sales Quantity (2021-2032)

1.7.3 Global Silver-based Active Brazing Alloys Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Tokyo Braze

2.1.1 Tokyo Braze Details

2.1.2 Tokyo Braze Major Business

2.1.3 Tokyo Braze Silver-based Active Brazing Alloys Product and Services

2.1.4 Tokyo Braze Silver-based Active Brazing Alloys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Tokyo Braze Recent Developments/Updates

2.2 Tanaka

2.2.1 Tanaka Details

2.2.2 Tanaka Major Business

2.2.3 Tanaka Silver-based Active Brazing Alloys Product and Services

2.2.4 Tanaka Silver-based Active Brazing Alloys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Tanaka Recent Developments/Updates

2.3 Linbraz

2.3.1 Linbraz Details

2.3.2 Linbraz Major Business

2.3.3 Linbraz Silver-based Active Brazing Alloys Product and Services

2.3.4 Linbraz Silver-based Active Brazing Alloys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Linbraz Recent Developments/Updates

2.4 Johnson Matthey

2.4.1 Johnson Matthey Details

2.4.2 Johnson Matthey Major Business

2.4.3 Johnson Matthey Silver-based Active Brazing Alloys Product and Services

2.4.4 Johnson Matthey Silver-based Active Brazing Alloys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Johnson Matthey Recent Developments/Updates

2.5 Morgan Advanced Materials

2.5.1 Morgan Advanced Materials Details

2.5.2 Morgan Advanced Materials Major Business

2.5.3 Morgan Advanced Materials Silver-based Active Brazing Alloys Product and Services

2.5.4 Morgan Advanced Materials Silver-based Active Brazing Alloys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Morgan Advanced Materials Recent Developments/Updates

2.6 Lucas Milhaupt

2.6.1 Lucas Milhaupt Details

2.6.2 Lucas Milhaupt Major Business

2.6.3 Lucas Milhaupt Silver-based Active Brazing Alloys Product and Services

2.6.4 Lucas Milhaupt Silver-based Active Brazing Alloys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Lucas Milhaupt Recent Developments/Updates

2.7 Prince & Izant

2.7.1 Prince & Izant Details

2.7.2 Prince & Izant Major Business

2.7.3 Prince & Izant Silver-based Active Brazing Alloys Product and Services

2.7.4 Prince & Izant Silver-based Active Brazing Alloys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Prince & Izant Recent Developments/Updates

2.8 Zhejiang YaTong Advanced Materials

2.8.1 Zhejiang YaTong Advanced Materials Details

2.8.2 Zhejiang YaTong Advanced Materials Major Business

2.8.3 Zhejiang YaTong Advanced Materials Silver-based Active Brazing Alloys Product and Services

2.8.4 Zhejiang YaTong Advanced Materials Silver-based Active Brazing Alloys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Zhejiang YaTong Advanced Materials Recent Developments/Updates

2.9 Dalian Haiwai Huasheng Electronic Technology

2.9.1 Dalian Haiwai Huasheng Electronic Technology Details

2.9.2 Dalian Haiwai Huasheng Electronic Technology Major Business

2.9.3 Dalian Haiwai Huasheng Electronic Technology Silver-based Active Brazing Alloys Product and Services

2.9.4 Dalian Haiwai Huasheng Electronic Technology Silver-based Active Brazing Alloys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Dalian Haiwai Huasheng Electronic Technology Recent Developments/Updates

2.10 Wuxi DK Electronic Materials

2.10.1 Wuxi DK Electronic Materials Details

2.10.2 Wuxi DK Electronic Materials Major Business

2.10.3 Wuxi DK Electronic Materials Silver-based Active Brazing Alloys Product and Services

2.10.4 Wuxi DK Electronic Materials Silver-based Active Brazing Alloys Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Wuxi DK Electronic Materials Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SILVER-BASED ACTIVE BRAZING ALLOYS BY MANUFACTURER

3.1 Global Silver-based Active Brazing Alloys Sales Quantity by Manufacturer (2021-2026)

3.2 Global Silver-based Active Brazing Alloys Revenue by Manufacturer (2021-2026)

3.3 Global Silver-based Active Brazing Alloys Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Silver-based Active Brazing Alloys by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Silver-based Active Brazing Alloys Manufacturer Market Share in 2025

3.4.3 Top 6 Silver-based Active Brazing Alloys Manufacturer Market Share in 2025

3.5 Silver-based Active Brazing Alloys Market: Overall Company Footprint Analysis

3.5.1 Silver-based Active Brazing Alloys Market: Region Footprint

3.5.2 Silver-based Active Brazing Alloys Market: Company Product Type Footprint

3.5.3 Silver-based Active Brazing Alloys Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Silver-based Active Brazing Alloys Market Size by Region

4.1.1 Global Silver-based Active Brazing Alloys Sales Quantity by Region (2021-2032)

4.1.2 Global Silver-based Active Brazing Alloys Consumption Value by Region (2021-2032)

4.1.3 Global Silver-based Active Brazing Alloys Average Price by Region (2021-2032)

4.2 North America Silver-based Active Brazing Alloys Consumption Value (2021-2032)

4.3 Europe Silver-based Active Brazing Alloys Consumption Value (2021-2032)

4.4 Asia-Pacific Silver-based Active Brazing Alloys Consumption Value (2021-2032)

4.5 South America Silver-based Active Brazing Alloys Consumption Value (2021-2032)

4.6 Middle East & Africa Silver-based Active Brazing Alloys Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Silver-based Active Brazing Alloys Sales Quantity by Type (2021-2032)

5.2 Global Silver-based Active Brazing Alloys Consumption Value by Type (2021-2032)

5.3 Global Silver-based Active Brazing Alloys Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Silver-based Active Brazing Alloys Sales Quantity by Application (2021-2032)

6.2 Global Silver-based Active Brazing Alloys Consumption Value by Application (2021-2032)

6.3 Global Silver-based Active Brazing Alloys Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Silver-based Active Brazing Alloys Sales Quantity by Type (2021-2032)

7.2 North America Silver-based Active Brazing Alloys Sales Quantity by Application (2021-2032)

7.3 North America Silver-based Active Brazing Alloys Market Size by Country

7.3.1 North America Silver-based Active Brazing Alloys Sales Quantity by Country (2021-2032)

7.3.2 North America Silver-based Active Brazing Alloys Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Silver-based Active Brazing Alloys Sales Quantity by Type (2021-2032)

8.2 Europe Silver-based Active Brazing Alloys Sales Quantity by Application (2021-2032)

8.3 Europe Silver-based Active Brazing Alloys Market Size by Country

8.3.1 Europe Silver-based Active Brazing Alloys Sales Quantity by Country (2021-2032)

8.3.2 Europe Silver-based Active Brazing Alloys Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Silver-based Active Brazing Alloys Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Silver-based Active Brazing Alloys Sales Quantity by Application

(2021-2032)

9.3 Asia-Pacific Silver-based Active Brazing Alloys Market Size by Region

9.3.1 Asia-Pacific Silver-based Active Brazing Alloys Sales Quantity by Region

(2021-2032)

9.3.2 Asia-Pacific Silver-based Active Brazing Alloys Consumption Value by Region

(2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Silver-based Active Brazing Alloys Sales Quantity by Type

(2021-2032)

10.2 South America Silver-based Active Brazing Alloys Sales Quantity by Application

(2021-2032)

10.3 South America Silver-based Active Brazing Alloys Market Size by Country

10.3.1 South America Silver-based Active Brazing Alloys Sales Quantity by Country

(2021-2032)

10.3.2 South America Silver-based Active Brazing Alloys Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Silver-based Active Brazing Alloys Sales Quantity by Type

(2021-2032)

11.2 Middle East & Africa Silver-based Active Brazing Alloys Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Silver-based Active Brazing Alloys Market Size by Country

11.3.1 Middle East & Africa Silver-based Active Brazing Alloys Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Silver-based Active Brazing Alloys Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

- 11.3.4 Egypt Market Size and Forecast (2021-2032)
- 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
- 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Silver-based Active Brazing Alloys Market Drivers
- 12.2 Silver-based Active Brazing Alloys Market Restraints
- 12.3 Silver-based Active Brazing Alloys Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Silver-based Active Brazing Alloys and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Silver-based Active Brazing Alloys
- 13.3 Silver-based Active Brazing Alloys Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Silver-based Active Brazing Alloys Typical Distributors
- 14.3 Silver-based Active Brazing Alloys Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Compact CO2 Sensor Module Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Compact CO2 Sensor Module Consumption Value by Environment, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Compact CO2 Sensor Module Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 4. Figaro Basic Information, Manufacturing Base and Competitors
- Table 5. Figaro Major Business
- Table 6. Figaro Compact CO2 Sensor Module Product and Services
- Table 7. Figaro Compact CO2 Sensor Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 8. Figaro Recent Developments/Updates
- Table 9. Amphenol Basic Information, Manufacturing Base and Competitors
- Table 10. Amphenol Major Business
- Table 11. Amphenol Compact CO2 Sensor Module Product and Services
- Table 12. Amphenol Compact CO2 Sensor Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 13. Amphenol Recent Developments/Updates
- Table 14. Vaisala Basic Information, Manufacturing Base and Competitors
- Table 15. Vaisala Major Business
- Table 16. Vaisala Compact CO2 Sensor Module Product and Services
- Table 17. Vaisala Compact CO2 Sensor Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 18. Vaisala Recent Developments/Updates
- Table 19. Senseair Basic Information, Manufacturing Base and Competitors
- Table 20. Senseair Major Business
- Table 21. Senseair Compact CO2 Sensor Module Product and Services
- Table 22. Senseair Compact CO2 Sensor Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 23. Senseair Recent Developments/Updates
- Table 24. Tongdy Basic Information, Manufacturing Base and Competitors
- Table 25. Tongdy Major Business
- Table 26. Tongdy Compact CO2 Sensor Module Product and Services
- Table 27. Tongdy Compact CO2 Sensor Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 28. Tongdy Recent Developments/Updates

Table 29. sensirion Basic Information, Manufacturing Base and Competitors

Table 30. sensirion Major Business

Table 31. sensirion Compact CO2 Sensor Module Product and Services

Table 32. sensirion Compact CO2 Sensor Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 33. sensirion Recent Developments/Updates

Table 34. E+E Elektronik Basic Information, Manufacturing Base and Competitors

Table 35. E+E Elektronik Major Business

Table 36. E+E Elektronik Compact CO2 Sensor Module Product and Services

Table 37. E+E Elektronik Compact CO2 Sensor Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 38. E+E Elektronik Recent Developments/Updates

Table 39. Gas Sensing Solutions Basic Information, Manufacturing Base and Competitors

Table 40. Gas Sensing Solutions Major Business

Table 41. Gas Sensing Solutions Compact CO2 Sensor Module Product and Services

Table 42. Gas Sensing Solutions Compact CO2 Sensor Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 43. Gas Sensing Solutions Recent Developments/Updates

Table 44. Airwave Electronics Basic Information, Manufacturing Base and Competitors

Table 45. Airwave Electronics Major Business

Table 46. Airwave Electronics Compact CO2 Sensor Module Product and Services

Table 47. Airwave Electronics Compact CO2 Sensor Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 48. Airwave Electronics Recent Developments/Updates

Table 49. Dynament Basic Information, Manufacturing Base and Competitors

Table 50. Dynament Major Business

Table 51. Dynament Compact CO2 Sensor Module Product and Services

Table 52. Dynament Compact CO2 Sensor Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 53. Dynament Recent Developments/Updates

Table 54. ELT SENSOR Basic Information, Manufacturing Base and Competitors

Table 55. ELT SENSOR Major Business

Table 56. ELT SENSOR Compact CO2 Sensor Module Product and Services

Table 57. ELT SENSOR Compact CO2 Sensor Module Sales Quantity (K Units),

Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 58. ELT SENSOR Recent Developments/Updates

Table 59. Winsen Basic Information, Manufacturing Base and Competitors

Table 60. Winsen Major Business

Table 61. Winsen Compact CO2 Sensor Module Product and Services

Table 62. Winsen Compact CO2 Sensor Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 63. Winsen Recent Developments/Updates

Table 64. SST Sensing Basic Information, Manufacturing Base and Competitors

Table 65. SST Sensing Major Business

Table 66. SST Sensing Compact CO2 Sensor Module Product and Services

Table 67. SST Sensing Compact CO2 Sensor Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 68. SST Sensing Recent Developments/Updates

Table 69. Global Compact CO2 Sensor Module Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 70. Global Compact CO2 Sensor Module Revenue by Manufacturer (2021-2026) & (USD Million)

Table 71. Global Compact CO2 Sensor Module Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 72. Market Position of Manufacturers in Compact CO2 Sensor Module, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 73. Head Office and Compact CO2 Sensor Module Production Site of Key Manufacturer

Table 74. Compact CO2 Sensor Module Market: Company Product Type Footprint

Table 75. Compact CO2 Sensor Module Market: Company Product Application Footprint

Table 76. Compact CO2 Sensor Module New Market Entrants and Barriers to Market Entry

Table 77. Compact CO2 Sensor Module Mergers, Acquisition, Agreements, and Collaborations

Table 78. Global Compact CO2 Sensor Module Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 79. Global Compact CO2 Sensor Module Sales Quantity by Region (2021-2026) & (K Units)

Table 80. Global Compact CO2 Sensor Module Sales Quantity by Region (2027-2032) & (K Units)

Table 81. Global Compact CO2 Sensor Module Consumption Value by Region (2021-2026) & (USD Million)

Table 82. Global Compact CO2 Sensor Module Consumption Value by Region (2027-2032) & (USD Million)

Table 83. Global Compact CO2 Sensor Module Average Price by Region (2021-2026) & (US\$/Unit)

Table 84. Global Compact CO2 Sensor Module Average Price by Region (2027-2032) & (US\$/Unit)

Table 85. Global Compact CO2 Sensor Module Sales Quantity by Type (2021-2026) & (K Units)

Table 86. Global Compact CO2 Sensor Module Sales Quantity by Type (2027-2032) & (K Units)

Table 87. Global Compact CO2 Sensor Module Consumption Value by Type (2021-2026) & (USD Million)

Table 88. Global Compact CO2 Sensor Module Consumption Value by Type (2027-2032) & (USD Million)

Table 89. Global Compact CO2 Sensor Module Average Price by Type (2021-2026) & (US\$/Unit)

Table 90. Global Compact CO2 Sensor Module Average Price by Type (2027-2032) & (US\$/Unit)

Table 91. Global Compact CO2 Sensor Module Sales Quantity by Application (2021-2026) & (K Units)

Table 92. Global Compact CO2 Sensor Module Sales Quantity by Application (2027-2032) & (K Units)

Table 93. Global Compact CO2 Sensor Module Consumption Value by Application (2021-2026) & (USD Million)

Table 94. Global Compact CO2 Sensor Module Consumption Value by Application (2027-2032) & (USD Million)

Table 95. Global Compact CO2 Sensor Module Average Price by Application (2021-2026) & (US\$/Unit)

Table 96. Global Compact CO2 Sensor Module Average Price by Application (2027-2032) & (US\$/Unit)

Table 97. North America Compact CO2 Sensor Module Sales Quantity by Type (2021-2026) & (K Units)

Table 98. North America Compact CO2 Sensor Module Sales Quantity by Type (2027-2032) & (K Units)

Table 99. North America Compact CO2 Sensor Module Sales Quantity by Application (2021-2026) & (K Units)

Table 100. North America Compact CO2 Sensor Module Sales Quantity by Application

(2027-2032) & (K Units)

Table 101. North America Compact CO2 Sensor Module Sales Quantity by Country (2021-2026) & (K Units)

Table 102. North America Compact CO2 Sensor Module Sales Quantity by Country (2027-2032) & (K Units)

Table 103. North America Compact CO2 Sensor Module Consumption Value by Country (2021-2026) & (USD Million)

Table 104. North America Compact CO2 Sensor Module Consumption Value by Country (2027-2032) & (USD Million)

Table 105. Europe Compact CO2 Sensor Module Sales Quantity by Type (2021-2026) & (K Units)

Table 106. Europe Compact CO2 Sensor Module Sales Quantity by Type (2027-2032) & (K Units)

Table 107. Europe Compact CO2 Sensor Module Sales Quantity by Application (2021-2026) & (K Units)

Table 108. Europe Compact CO2 Sensor Module Sales Quantity by Application (2027-2032) & (K Units)

Table 109. Europe Compact CO2 Sensor Module Sales Quantity by Country (2021-2026) & (K Units)

Table 110. Europe Compact CO2 Sensor Module Sales Quantity by Country (2027-2032) & (K Units)

Table 111. Europe Compact CO2 Sensor Module Consumption Value by Country (2021-2026) & (USD Million)

Table 112. Europe Compact CO2 Sensor Module Consumption Value by Country (2027-2032) & (USD Million)

Table 113. Asia-Pacific Compact CO2 Sensor Module Sales Quantity by Type (2021-2026) & (K Units)

Table 114. Asia-Pacific Compact CO2 Sensor Module Sales Quantity by Type (2027-2032) & (K Units)

Table 115. Asia-Pacific Compact CO2 Sensor Module Sales Quantity by Application (2021-2026) & (K Units)

Table 116. Asia-Pacific Compact CO2 Sensor Module Sales Quantity by Application (2027-2032) & (K Units)

Table 117. Asia-Pacific Compact CO2 Sensor Module Sales Quantity by Region (2021-2026) & (K Units)

Table 118. Asia-Pacific Compact CO2 Sensor Module Sales Quantity by Region (2027-2032) & (K Units)

Table 119. Asia-Pacific Compact CO2 Sensor Module Consumption Value by Region (2021-2026) & (USD Million)

Table 120. Asia-Pacific Compact CO2 Sensor Module Consumption Value by Region (2027-2032) & (USD Million)

Table 121. South America Compact CO2 Sensor Module Sales Quantity by Type (2021-2026) & (K Units)

Table 122. South America Compact CO2 Sensor Module Sales Quantity by Type (2027-2032) & (K Units)

Table 123. South America Compact CO2 Sensor Module Sales Quantity by Application (2021-2026) & (K Units)

Table 124. South America Compact CO2 Sensor Module Sales Quantity by Application (2027-2032) & (K Units)

Table 125. South America Compact CO2 Sensor Module Sales Quantity by Country (2021-2026) & (K Units)

Table 126. South America Compact CO2 Sensor Module Sales Quantity by Country (2027-2032) & (K Units)

Table 127. South America Compact CO2 Sensor Module Consumption Value by Country (2021-2026) & (USD Million)

Table 128. South America Compact CO2 Sensor Module Consumption Value by Country (2027-2032) & (USD Million)

Table 129. Middle East & Africa Compact CO2 Sensor Module Sales Quantity by Type (2021-2026) & (K Units)

Table 130. Middle East & Africa Compact CO2 Sensor Module Sales Quantity by Type (2027-2032) & (K Units)

Table 131. Middle East & Africa Compact CO2 Sensor Module Sales Quantity by Application (2021-2026) & (K Units)

Table 132. Middle East & Africa Compact CO2 Sensor Module Sales Quantity by Application (2027-2032) & (K Units)

Table 133. Middle East & Africa Compact CO2 Sensor Module Sales Quantity by Country (2021-2026) & (K Units)

Table 134. Middle East & Africa Compact CO2 Sensor Module Sales Quantity by Country (2027-2032) & (K Units)

Table 135. Middle East & Africa Compact CO2 Sensor Module Consumption Value by Country (2021-2026) & (USD Million)

Table 136. Middle East & Africa Compact CO2 Sensor Module Consumption Value by Country (2027-2032) & (USD Million)

Table 137. Compact CO2 Sensor Module Raw Material

Table 138. Key Manufacturers of Compact CO2 Sensor Module Raw Materials

Table 139. Compact CO2 Sensor Module Typical Distributors

Table 140. Compact CO2 Sensor Module Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Compact CO2 Sensor Module Picture

Figure 2. Global Compact CO2 Sensor Module Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Compact CO2 Sensor Module Revenue Market Share by Type in 2025

Figure 4. NDIR CO2 Sensor Examples

Figure 5. Chemical CO2 Sensor Examples

Figure 6. Others Examples

Figure 7. Global Compact CO2 Sensor Module Revenue by Environment, (USD Million), 2021 & 2025 & 2032

Figure 8. Global Compact CO2 Sensor Module Revenue Market Share by Environment in 2025

Figure 9. Indoor Examples

Figure 10. Outdoor Examples

Figure 11. Global Compact CO2 Sensor Module Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 12. Global Compact CO2 Sensor Module Revenue Market Share by Application in 2025

Figure 13. Automotive Examples

Figure 14. Industrial Examples

Figure 15. Building Automation Examples

Figure 16. Others Examples

Figure 17. Global Compact CO2 Sensor Module Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 18. Global Compact CO2 Sensor Module Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 19. Global Compact CO2 Sensor Module Sales Quantity (2021-2032) & (K Units)

Figure 20. Global Compact CO2 Sensor Module Price (2021-2032) & (US\$/Unit)

Figure 21. Global Compact CO2 Sensor Module Sales Quantity Market Share by Manufacturer in 2025

Figure 22. Global Compact CO2 Sensor Module Revenue Market Share by Manufacturer in 2025

Figure 23. Producer Shipments of Compact CO2 Sensor Module by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 24. Top 3 Compact CO2 Sensor Module Manufacturer (Revenue) Market Share in 2025

Figure 25. Top 6 Compact CO2 Sensor Module Manufacturer (Revenue) Market Share in 2025

Figure 26. Global Compact CO2 Sensor Module Sales Quantity Market Share by Region (2021-2032)

Figure 27. Global Compact CO2 Sensor Module Consumption Value Market Share by Region (2021-2032)

Figure 28. North America Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 29. Europe Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 30. Asia-Pacific Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 31. South America Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 32. Middle East & Africa Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 33. Global Compact CO2 Sensor Module Sales Quantity Market Share by Type (2021-2032)

Figure 34. Global Compact CO2 Sensor Module Consumption Value Market Share by Type (2021-2032)

Figure 35. Global Compact CO2 Sensor Module Average Price by Type (2021-2032) & (US\$/Unit)

Figure 36. Global Compact CO2 Sensor Module Sales Quantity Market Share by Application (2021-2032)

Figure 37. Global Compact CO2 Sensor Module Revenue Market Share by Application (2021-2032)

Figure 38. Global Compact CO2 Sensor Module Average Price by Application (2021-2032) & (US\$/Unit)

Figure 39. North America Compact CO2 Sensor Module Sales Quantity Market Share by Type (2021-2032)

Figure 40. North America Compact CO2 Sensor Module Sales Quantity Market Share by Application (2021-2032)

Figure 41. North America Compact CO2 Sensor Module Sales Quantity Market Share by Country (2021-2032)

Figure 42. North America Compact CO2 Sensor Module Consumption Value Market Share by Country (2021-2032)

Figure 43. United States Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 44. Canada Compact CO2 Sensor Module Consumption Value (2021-2032) &

(USD Million)

Figure 45. Mexico Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 46. Europe Compact CO2 Sensor Module Sales Quantity Market Share by Type (2021-2032)

Figure 47. Europe Compact CO2 Sensor Module Sales Quantity Market Share by Application (2021-2032)

Figure 48. Europe Compact CO2 Sensor Module Sales Quantity Market Share by Country (2021-2032)

Figure 49. Europe Compact CO2 Sensor Module Consumption Value Market Share by Country (2021-2032)

Figure 50. Germany Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 51. France Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 52. United Kingdom Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 53. Russia Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 54. Italy Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 55. Asia-Pacific Compact CO2 Sensor Module Sales Quantity Market Share by Type (2021-2032)

Figure 56. Asia-Pacific Compact CO2 Sensor Module Sales Quantity Market Share by Application (2021-2032)

Figure 57. Asia-Pacific Compact CO2 Sensor Module Sales Quantity Market Share by Region (2021-2032)

Figure 58. Asia-Pacific Compact CO2 Sensor Module Consumption Value Market Share by Region (2021-2032)

Figure 59. China Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 60. Japan Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 61. South Korea Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 62. India Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 63. Southeast Asia Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 64. Australia Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 65. South America Compact CO2 Sensor Module Sales Quantity Market Share by Type (2021-2032)

Figure 66. South America Compact CO2 Sensor Module Sales Quantity Market Share by Application (2021-2032)

Figure 67. South America Compact CO2 Sensor Module Sales Quantity Market Share by Country (2021-2032)

Figure 68. South America Compact CO2 Sensor Module Consumption Value Market Share by Country (2021-2032)

Figure 69. Brazil Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 70. Argentina Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 71. Middle East & Africa Compact CO2 Sensor Module Sales Quantity Market Share by Type (2021-2032)

Figure 72. Middle East & Africa Compact CO2 Sensor Module Sales Quantity Market Share by Application (2021-2032)

Figure 73. Middle East & Africa Compact CO2 Sensor Module Sales Quantity Market Share by Country (2021-2032)

Figure 74. Middle East & Africa Compact CO2 Sensor Module Consumption Value Market Share by Country (2021-2032)

Figure 75. Turkey Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 76. Egypt Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 77. Saudi Arabia Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 78. South Africa Compact CO2 Sensor Module Consumption Value (2021-2032) & (USD Million)

Figure 79. Compact CO2 Sensor Module Market Drivers

Figure 80. Compact CO2 Sensor Module Market Restraints

Figure 81. Compact CO2 Sensor Module Market Trends

Figure 82. Porters Five Forces Analysis

Figure 83. Manufacturing Cost Structure Analysis of Compact CO2 Sensor Module in 2025

Figure 84. Manufacturing Process Analysis of Compact CO2 Sensor Module

Figure 85. Compact CO2 Sensor Module Industrial Chain

Figure 86. Sales Channel: Direct to End-User vs Distributors

- Figure 87. Direct Channel Pros & Cons
- Figure 88. Indirect Channel Pros & Cons
- Figure 89. Methodology
- Figure 90. Research Process and Data Source

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