

Global CO2 Sensor for Fresh Air System Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global CO2 Sensor for Fresh Air System market size was valued at US\$ 278 million in 2024 and is forecast to a readjusted size of USD 429 million by 2031 with a CAGR of 6.3% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

CO₂ Sensor for Fresh Air System is a sensor designed to monitor indoor carbon dioxide concentration, typically based on Non-Dispersive Infrared (NDIR) technology, and is optimized for use in intelligent ventilation control within fresh air systems. It provides real-time CO₂ level data to enable the system to automatically adjust the fresh air supply based on occupancy and air quality, thereby enhancing indoor air quality, reducing energy consumption, and improving overall comfort. Key features include high accuracy, low power consumption, fast response time, and long-term stability. These sensors are widely used in residential buildings, offices, schools, hospitals, and other environments requiring intelligent air management.

This report is a detailed and comprehensive analysis for global CO2 Sensor for Fresh Air System 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 CO2 Sensor for Fresh Air System market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global CO2 Sensor for Fresh Air System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

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

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

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for CO2 Sensor for Fresh Air System
- 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 CO2 Sensor for Fresh Air System 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 Murata, AKM, Dynament, TDK, Cubic Sensor and Instrument, ADEUNIS, Honeywell, Aldes Group, ASTREL GROUP SRL, BlueSens gas sensor GmbH, etc.

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

Market Segmentation

CO2 Sensor for Fresh Air System market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and

value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single-Beam Single-Wavelength Type

Dual-Beam Dual-Wavelength Type

Others

Market segment by Application

Household Air Conditioner

Commercial Air Conditioner

Major players covered

Murata

AKM

Dynament

TDK

Cubic Sensor and Instrument

ADEUNIS

Honeywell

Aldes Group

ASTREL GROUP SRL

BlueSens gas sensor GmbH

British Rototherm Co. Ltd

E+E ELEKTRONIK

Figaro

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 CO2 Sensor for Fresh Air System product scope, market overview, market estimation caveats and base year.

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

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

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

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

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and CO2 Sensor for Fresh Air System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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

Chapter 13, the key raw materials and key suppliers, and industry chain of CO2 Sensor

for Fresh Air System.

Chapter 14 and 15, to describe CO2 Sensor for Fresh Air System 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 CO2 Sensor for Fresh Air System Consumption Value by Type: 2020 Versus 2024 Versus 2031
 - 1.3.2 Single-Beam Single-Wavelength Type
 - 1.3.3 Dual-Beam Dual-Wavelength Type
 - 1.3.4 Others
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global CO2 Sensor for Fresh Air System Consumption Value by Application: 2020 Versus 2024 Versus 2031
 - 1.4.2 Household Air Conditioner
 - 1.4.3 Commercial Air Conditioner
- 1.5 Global CO2 Sensor for Fresh Air System Market Size & Forecast
 - 1.5.1 Global CO2 Sensor for Fresh Air System Consumption Value (2020 & 2024 & 2031)
 - 1.5.2 Global CO2 Sensor for Fresh Air System Sales Quantity (2020-2031)
 - 1.5.3 Global CO2 Sensor for Fresh Air System Average Price (2020-2031)

2 MANUFACTURERS PROFILES

- 2.1 Murata
 - 2.1.1 Murata Details
 - 2.1.2 Murata Major Business
 - 2.1.3 Murata CO2 Sensor for Fresh Air System Product and Services
 - 2.1.4 Murata CO2 Sensor for Fresh Air System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.1.5 Murata Recent Developments/Updates
- 2.2 AKM
 - 2.2.1 AKM Details
 - 2.2.2 AKM Major Business
 - 2.2.3 AKM CO2 Sensor for Fresh Air System Product and Services
 - 2.2.4 AKM CO2 Sensor for Fresh Air System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.2.5 AKM Recent Developments/Updates

2.3 Dynament

2.3.1 Dynament Details

2.3.2 Dynament Major Business

2.3.3 Dynament CO2 Sensor for Fresh Air System Product and Services

2.3.4 Dynament CO2 Sensor for Fresh Air System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 Dynament Recent Developments/Updates

2.4 TDK

2.4.1 TDK Details

2.4.2 TDK Major Business

2.4.3 TDK CO2 Sensor for Fresh Air System Product and Services

2.4.4 TDK CO2 Sensor for Fresh Air System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 TDK Recent Developments/Updates

2.5 Cubic Sensor and Instrument

2.5.1 Cubic Sensor and Instrument Details

2.5.2 Cubic Sensor and Instrument Major Business

2.5.3 Cubic Sensor and Instrument CO2 Sensor for Fresh Air System Product and Services

2.5.4 Cubic Sensor and Instrument CO2 Sensor for Fresh Air System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 Cubic Sensor and Instrument Recent Developments/Updates

2.6 ADEUNIS

2.6.1 ADEUNIS Details

2.6.2 ADEUNIS Major Business

2.6.3 ADEUNIS CO2 Sensor for Fresh Air System Product and Services

2.6.4 ADEUNIS CO2 Sensor for Fresh Air System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 ADEUNIS Recent Developments/Updates

2.7 Honeywell

2.7.1 Honeywell Details

2.7.2 Honeywell Major Business

2.7.3 Honeywell CO2 Sensor for Fresh Air System Product and Services

2.7.4 Honeywell CO2 Sensor for Fresh Air System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 Honeywell Recent Developments/Updates

2.8 Aldes Group

2.8.1 Aldes Group Details

2.8.2 Aldes Group Major Business

- 2.8.3 Aldes Group CO2 Sensor for Fresh Air System Product and Services
- 2.8.4 Aldes Group CO2 Sensor for Fresh Air System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 Aldes Group Recent Developments/Updates
- 2.9 ASTREL GROUP SRL
 - 2.9.1 ASTREL GROUP SRL Details
 - 2.9.2 ASTREL GROUP SRL Major Business
 - 2.9.3 ASTREL GROUP SRL CO2 Sensor for Fresh Air System Product and Services
 - 2.9.4 ASTREL GROUP SRL CO2 Sensor for Fresh Air System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.9.5 ASTREL GROUP SRL Recent Developments/Updates
- 2.10 BlueSens gas sensor GmbH
 - 2.10.1 BlueSens gas sensor GmbH Details
 - 2.10.2 BlueSens gas sensor GmbH Major Business
 - 2.10.3 BlueSens gas sensor GmbH CO2 Sensor for Fresh Air System Product and Services
 - 2.10.4 BlueSens gas sensor GmbH CO2 Sensor for Fresh Air System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.10.5 BlueSens gas sensor GmbH Recent Developments/Updates
- 2.11 British Rototherm Co. Ltd
 - 2.11.1 British Rototherm Co. Ltd Details
 - 2.11.2 British Rototherm Co. Ltd Major Business
 - 2.11.3 British Rototherm Co. Ltd CO2 Sensor for Fresh Air System Product and Services
 - 2.11.4 British Rototherm Co. Ltd CO2 Sensor for Fresh Air System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.11.5 British Rototherm Co. Ltd Recent Developments/Updates
- 2.12 E+E ELEKTRONIK
 - 2.12.1 E+E ELEKTRONIK Details
 - 2.12.2 E+E ELEKTRONIK Major Business
 - 2.12.3 E+E ELEKTRONIK CO2 Sensor for Fresh Air System Product and Services
 - 2.12.4 E+E ELEKTRONIK CO2 Sensor for Fresh Air System Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.12.5 E+E ELEKTRONIK Recent Developments/Updates
- 2.13 Figaro
 - 2.13.1 Figaro Details
 - 2.13.2 Figaro Major Business
 - 2.13.3 Figaro CO2 Sensor for Fresh Air System Product and Services
 - 2.13.4 Figaro CO2 Sensor for Fresh Air System Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2020-2025)

2.13.5 Figaro Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: CO2 SENSOR FOR FRESH AIR SYSTEM BY MANUFACTURER

3.1 Global CO2 Sensor for Fresh Air System Sales Quantity by Manufacturer (2020-2025)

3.2 Global CO2 Sensor for Fresh Air System Revenue by Manufacturer (2020-2025)

3.3 Global CO2 Sensor for Fresh Air System Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of CO2 Sensor for Fresh Air System by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 CO2 Sensor for Fresh Air System Manufacturer Market Share in 2024

3.4.3 Top 6 CO2 Sensor for Fresh Air System Manufacturer Market Share in 2024

3.5 CO2 Sensor for Fresh Air System Market: Overall Company Footprint Analysis

3.5.1 CO2 Sensor for Fresh Air System Market: Region Footprint

3.5.2 CO2 Sensor for Fresh Air System Market: Company Product Type Footprint

3.5.3 CO2 Sensor for Fresh Air System 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 CO2 Sensor for Fresh Air System Market Size by Region

4.1.1 Global CO2 Sensor for Fresh Air System Sales Quantity by Region (2020-2031)

4.1.2 Global CO2 Sensor for Fresh Air System Consumption Value by Region (2020-2031)

4.1.3 Global CO2 Sensor for Fresh Air System Average Price by Region (2020-2031)

4.2 North America CO2 Sensor for Fresh Air System Consumption Value (2020-2031)

4.3 Europe CO2 Sensor for Fresh Air System Consumption Value (2020-2031)

4.4 Asia-Pacific CO2 Sensor for Fresh Air System Consumption Value (2020-2031)

4.5 South America CO2 Sensor for Fresh Air System Consumption Value (2020-2031)

4.6 Middle East & Africa CO2 Sensor for Fresh Air System Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

- 5.1 Global CO2 Sensor for Fresh Air System Sales Quantity by Type (2020-2031)
- 5.2 Global CO2 Sensor for Fresh Air System Consumption Value by Type (2020-2031)
- 5.3 Global CO2 Sensor for Fresh Air System Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global CO2 Sensor for Fresh Air System Sales Quantity by Application (2020-2031)
- 6.2 Global CO2 Sensor for Fresh Air System Consumption Value by Application (2020-2031)
- 6.3 Global CO2 Sensor for Fresh Air System Average Price by Application (2020-2031)

7 NORTH AMERICA

- 7.1 North America CO2 Sensor for Fresh Air System Sales Quantity by Type (2020-2031)
- 7.2 North America CO2 Sensor for Fresh Air System Sales Quantity by Application (2020-2031)
- 7.3 North America CO2 Sensor for Fresh Air System Market Size by Country
 - 7.3.1 North America CO2 Sensor for Fresh Air System Sales Quantity by Country (2020-2031)
 - 7.3.2 North America CO2 Sensor for Fresh Air System Consumption Value by Country (2020-2031)
 - 7.3.3 United States Market Size and Forecast (2020-2031)
 - 7.3.4 Canada Market Size and Forecast (2020-2031)
 - 7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

- 8.1 Europe CO2 Sensor for Fresh Air System Sales Quantity by Type (2020-2031)
- 8.2 Europe CO2 Sensor for Fresh Air System Sales Quantity by Application (2020-2031)
- 8.3 Europe CO2 Sensor for Fresh Air System Market Size by Country
 - 8.3.1 Europe CO2 Sensor for Fresh Air System Sales Quantity by Country (2020-2031)
 - 8.3.2 Europe CO2 Sensor for Fresh Air System Consumption Value by Country (2020-2031)
 - 8.3.3 Germany Market Size and Forecast (2020-2031)
 - 8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

9.1 Asia-Pacific CO2 Sensor for Fresh Air System Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific CO2 Sensor for Fresh Air System Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific CO2 Sensor for Fresh Air System Market Size by Region

9.3.1 Asia-Pacific CO2 Sensor for Fresh Air System Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific CO2 Sensor for Fresh Air System Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

10.1 South America CO2 Sensor for Fresh Air System Sales Quantity by Type (2020-2031)

10.2 South America CO2 Sensor for Fresh Air System Sales Quantity by Application (2020-2031)

10.3 South America CO2 Sensor for Fresh Air System Market Size by Country

10.3.1 South America CO2 Sensor for Fresh Air System Sales Quantity by Country (2020-2031)

10.3.2 South America CO2 Sensor for Fresh Air System Consumption Value by Country (2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa CO2 Sensor for Fresh Air System Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa CO2 Sensor for Fresh Air System Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa CO2 Sensor for Fresh Air System Market Size by Country

11.3.1 Middle East & Africa CO2 Sensor for Fresh Air System Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa CO2 Sensor for Fresh Air System Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

12.1 CO2 Sensor for Fresh Air System Market Drivers

12.2 CO2 Sensor for Fresh Air System Market Restraints

12.3 CO2 Sensor for Fresh Air System 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 CO2 Sensor for Fresh Air System and Key Manufacturers

13.2 Manufacturing Costs Percentage of CO2 Sensor for Fresh Air System

13.3 CO2 Sensor for Fresh Air System 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 CO2 Sensor for Fresh Air System Typical Distributors

14.3 CO2 Sensor for Fresh Air System 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 CO2 Sensor for Fresh Air System Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global CO2 Sensor for Fresh Air System Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Murata Basic Information, Manufacturing Base and Competitors

Table 4. Murata Major Business

Table 5. Murata CO2 Sensor for Fresh Air System Product and Services

Table 6. Murata CO2 Sensor for Fresh Air System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Murata Recent Developments/Updates

Table 8. AKM Basic Information, Manufacturing Base and Competitors

Table 9. AKM Major Business

Table 10. AKM CO2 Sensor for Fresh Air System Product and Services

Table 11. AKM CO2 Sensor for Fresh Air System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. AKM Recent Developments/Updates

Table 13. Dynament Basic Information, Manufacturing Base and Competitors

Table 14. Dynament Major Business

Table 15. Dynament CO2 Sensor for Fresh Air System Product and Services

Table 16. Dynament CO2 Sensor for Fresh Air System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Dynament Recent Developments/Updates

Table 18. TDK Basic Information, Manufacturing Base and Competitors

Table 19. TDK Major Business

Table 20. TDK CO2 Sensor for Fresh Air System Product and Services

Table 21. TDK CO2 Sensor for Fresh Air System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. TDK Recent Developments/Updates

Table 23. Cubic Sensor and Instrument Basic Information, Manufacturing Base and Competitors

Table 24. Cubic Sensor and Instrument Major Business

Table 25. Cubic Sensor and Instrument CO2 Sensor for Fresh Air System Product and Services

Table 26. Cubic Sensor and Instrument CO2 Sensor for Fresh Air System Sales

Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Cubic Sensor and Instrument Recent Developments/Updates

Table 28. ADEUNIS Basic Information, Manufacturing Base and Competitors

Table 29. ADEUNIS Major Business

Table 30. ADEUNIS CO2 Sensor for Fresh Air System Product and Services

Table 31. ADEUNIS CO2 Sensor for Fresh Air System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. ADEUNIS Recent Developments/Updates

Table 33. Honeywell Basic Information, Manufacturing Base and Competitors

Table 34. Honeywell Major Business

Table 35. Honeywell CO2 Sensor for Fresh Air System Product and Services

Table 36. Honeywell CO2 Sensor for Fresh Air System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Honeywell Recent Developments/Updates

Table 38. Aldes Group Basic Information, Manufacturing Base and Competitors

Table 39. Aldes Group Major Business

Table 40. Aldes Group CO2 Sensor for Fresh Air System Product and Services

Table 41. Aldes Group CO2 Sensor for Fresh Air System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Aldes Group Recent Developments/Updates

Table 43. ASTREL GROUP SRL Basic Information, Manufacturing Base and Competitors

Table 44. ASTREL GROUP SRL Major Business

Table 45. ASTREL GROUP SRL CO2 Sensor for Fresh Air System Product and Services

Table 46. ASTREL GROUP SRL CO2 Sensor for Fresh Air System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. ASTREL GROUP SRL Recent Developments/Updates

Table 48. BlueSens gas sensor GmbH Basic Information, Manufacturing Base and Competitors

Table 49. BlueSens gas sensor GmbH Major Business

Table 50. BlueSens gas sensor GmbH CO2 Sensor for Fresh Air System Product and Services

Table 51. BlueSens gas sensor GmbH CO2 Sensor for Fresh Air System Sales

Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. BlueSens gas sensor GmbH Recent Developments/Updates

Table 53. British Rototherm Co. Ltd Basic Information, Manufacturing Base and Competitors

Table 54. British Rototherm Co. Ltd Major Business

Table 55. British Rototherm Co. Ltd CO2 Sensor for Fresh Air System Product and Services

Table 56. British Rototherm Co. Ltd CO2 Sensor for Fresh Air System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. British Rototherm Co. Ltd Recent Developments/Updates

Table 58. E+E ELEKTRONIK Basic Information, Manufacturing Base and Competitors

Table 59. E+E ELEKTRONIK Major Business

Table 60. E+E ELEKTRONIK CO2 Sensor for Fresh Air System Product and Services

Table 61. E+E ELEKTRONIK CO2 Sensor for Fresh Air System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. E+E ELEKTRONIK Recent Developments/Updates

Table 63. Figaro Basic Information, Manufacturing Base and Competitors

Table 64. Figaro Major Business

Table 65. Figaro CO2 Sensor for Fresh Air System Product and Services

Table 66. Figaro CO2 Sensor for Fresh Air System Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. Figaro Recent Developments/Updates

Table 68. Global CO2 Sensor for Fresh Air System Sales Quantity by Manufacturer (2020-2025) & (K Units)

Table 69. Global CO2 Sensor for Fresh Air System Revenue by Manufacturer (2020-2025) & (USD Million)

Table 70. Global CO2 Sensor for Fresh Air System Average Price by Manufacturer (2020-2025) & (US\$/Unit)

Table 71. Market Position of Manufacturers in CO2 Sensor for Fresh Air System, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 72. Head Office and CO2 Sensor for Fresh Air System Production Site of Key Manufacturer

Table 73. CO2 Sensor for Fresh Air System Market: Company Product Type Footprint

Table 74. CO2 Sensor for Fresh Air System Market: Company Product Application Footprint

Table 75. CO2 Sensor for Fresh Air System New Market Entrants and Barriers to

Market Entry

Table 76. CO2 Sensor for Fresh Air System Mergers, Acquisition, Agreements, and Collaborations

Table 77. Global CO2 Sensor for Fresh Air System Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 78. Global CO2 Sensor for Fresh Air System Sales Quantity by Region (2020-2025) & (K Units)

Table 79. Global CO2 Sensor for Fresh Air System Sales Quantity by Region (2026-2031) & (K Units)

Table 80. Global CO2 Sensor for Fresh Air System Consumption Value by Region (2020-2025) & (USD Million)

Table 81. Global CO2 Sensor for Fresh Air System Consumption Value by Region (2026-2031) & (USD Million)

Table 82. Global CO2 Sensor for Fresh Air System Average Price by Region (2020-2025) & (US\$/Unit)

Table 83. Global CO2 Sensor for Fresh Air System Average Price by Region (2026-2031) & (US\$/Unit)

Table 84. Global CO2 Sensor for Fresh Air System Sales Quantity by Type (2020-2025) & (K Units)

Table 85. Global CO2 Sensor for Fresh Air System Sales Quantity by Type (2026-2031) & (K Units)

Table 86. Global CO2 Sensor for Fresh Air System Consumption Value by Type (2020-2025) & (USD Million)

Table 87. Global CO2 Sensor for Fresh Air System Consumption Value by Type (2026-2031) & (USD Million)

Table 88. Global CO2 Sensor for Fresh Air System Average Price by Type (2020-2025) & (US\$/Unit)

Table 89. Global CO2 Sensor for Fresh Air System Average Price by Type (2026-2031) & (US\$/Unit)

Table 90. Global CO2 Sensor for Fresh Air System Sales Quantity by Application (2020-2025) & (K Units)

Table 91. Global CO2 Sensor for Fresh Air System Sales Quantity by Application (2026-2031) & (K Units)

Table 92. Global CO2 Sensor for Fresh Air System Consumption Value by Application (2020-2025) & (USD Million)

Table 93. Global CO2 Sensor for Fresh Air System Consumption Value by Application (2026-2031) & (USD Million)

Table 94. Global CO2 Sensor for Fresh Air System Average Price by Application (2020-2025) & (US\$/Unit)

Table 95. Global CO2 Sensor for Fresh Air System Average Price by Application (2026-2031) & (US\$/Unit)

Table 96. North America CO2 Sensor for Fresh Air System Sales Quantity by Type (2020-2025) & (K Units)

Table 97. North America CO2 Sensor for Fresh Air System Sales Quantity by Type (2026-2031) & (K Units)

Table 98. North America CO2 Sensor for Fresh Air System Sales Quantity by Application (2020-2025) & (K Units)

Table 99. North America CO2 Sensor for Fresh Air System Sales Quantity by Application (2026-2031) & (K Units)

Table 100. North America CO2 Sensor for Fresh Air System Sales Quantity by Country (2020-2025) & (K Units)

Table 101. North America CO2 Sensor for Fresh Air System Sales Quantity by Country (2026-2031) & (K Units)

Table 102. North America CO2 Sensor for Fresh Air System Consumption Value by Country (2020-2025) & (USD Million)

Table 103. North America CO2 Sensor for Fresh Air System Consumption Value by Country (2026-2031) & (USD Million)

Table 104. Europe CO2 Sensor for Fresh Air System Sales Quantity by Type (2020-2025) & (K Units)

Table 105. Europe CO2 Sensor for Fresh Air System Sales Quantity by Type (2026-2031) & (K Units)

Table 106. Europe CO2 Sensor for Fresh Air System Sales Quantity by Application (2020-2025) & (K Units)

Table 107. Europe CO2 Sensor for Fresh Air System Sales Quantity by Application (2026-2031) & (K Units)

Table 108. Europe CO2 Sensor for Fresh Air System Sales Quantity by Country (2020-2025) & (K Units)

Table 109. Europe CO2 Sensor for Fresh Air System Sales Quantity by Country (2026-2031) & (K Units)

Table 110. Europe CO2 Sensor for Fresh Air System Consumption Value by Country (2020-2025) & (USD Million)

Table 111. Europe CO2 Sensor for Fresh Air System Consumption Value by Country (2026-2031) & (USD Million)

Table 112. Asia-Pacific CO2 Sensor for Fresh Air System Sales Quantity by Type (2020-2025) & (K Units)

Table 113. Asia-Pacific CO2 Sensor for Fresh Air System Sales Quantity by Type (2026-2031) & (K Units)

Table 114. Asia-Pacific CO2 Sensor for Fresh Air System Sales Quantity by Application

(2020-2025) & (K Units)

Table 115. Asia-Pacific CO2 Sensor for Fresh Air System Sales Quantity by Application (2026-2031) & (K Units)

Table 116. Asia-Pacific CO2 Sensor for Fresh Air System Sales Quantity by Region (2020-2025) & (K Units)

Table 117. Asia-Pacific CO2 Sensor for Fresh Air System Sales Quantity by Region (2026-2031) & (K Units)

Table 118. Asia-Pacific CO2 Sensor for Fresh Air System Consumption Value by Region (2020-2025) & (USD Million)

Table 119. Asia-Pacific CO2 Sensor for Fresh Air System Consumption Value by Region (2026-2031) & (USD Million)

Table 120. South America CO2 Sensor for Fresh Air System Sales Quantity by Type (2020-2025) & (K Units)

Table 121. South America CO2 Sensor for Fresh Air System Sales Quantity by Type (2026-2031) & (K Units)

Table 122. South America CO2 Sensor for Fresh Air System Sales Quantity by Application (2020-2025) & (K Units)

Table 123. South America CO2 Sensor for Fresh Air System Sales Quantity by Application (2026-2031) & (K Units)

Table 124. South America CO2 Sensor for Fresh Air System Sales Quantity by Country (2020-2025) & (K Units)

Table 125. South America CO2 Sensor for Fresh Air System Sales Quantity by Country (2026-2031) & (K Units)

Table 126. South America CO2 Sensor for Fresh Air System Consumption Value by Country (2020-2025) & (USD Million)

Table 127. South America CO2 Sensor for Fresh Air System Consumption Value by Country (2026-2031) & (USD Million)

Table 128. Middle East & Africa CO2 Sensor for Fresh Air System Sales Quantity by Type (2020-2025) & (K Units)

Table 129. Middle East & Africa CO2 Sensor for Fresh Air System Sales Quantity by Type (2026-2031) & (K Units)

Table 130. Middle East & Africa CO2 Sensor for Fresh Air System Sales Quantity by Application (2020-2025) & (K Units)

Table 131. Middle East & Africa CO2 Sensor for Fresh Air System Sales Quantity by Application (2026-2031) & (K Units)

Table 132. Middle East & Africa CO2 Sensor for Fresh Air System Sales Quantity by Country (2020-2025) & (K Units)

Table 133. Middle East & Africa CO2 Sensor for Fresh Air System Sales Quantity by Country (2026-2031) & (K Units)

Table 134. Middle East & Africa CO2 Sensor for Fresh Air System Consumption Value by Country (2020-2025) & (USD Million)

Table 135. Middle East & Africa CO2 Sensor for Fresh Air System Consumption Value by Country (2026-2031) & (USD Million)

Table 136. CO2 Sensor for Fresh Air System Raw Material

Table 137. Key Manufacturers of CO2 Sensor for Fresh Air System Raw Materials

Table 138. CO2 Sensor for Fresh Air System Typical Distributors

Table 139. CO2 Sensor for Fresh Air System Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. CO2 Sensor for Fresh Air System Picture
- Figure 2. Global CO2 Sensor for Fresh Air System Revenue by Type, (USD Million), 2020 & 2024 & 2031
- Figure 3. Global CO2 Sensor for Fresh Air System Revenue Market Share by Type in 2024
- Figure 4. Single-Beam Single-Wavelength Type Examples
- Figure 5. Dual-Beam Dual-Wavelength Type Examples
- Figure 6. Others Examples
- Figure 7. Global CO2 Sensor for Fresh Air System Consumption Value by Application, (USD Million), 2020 & 2024 & 2031
- Figure 8. Global CO2 Sensor for Fresh Air System Revenue Market Share by Application in 2024
- Figure 9. Household Air Conditioner Examples
- Figure 10. Commercial Air Conditioner Examples
- Figure 11. Global CO2 Sensor for Fresh Air System Consumption Value, (USD Million): 2020 & 2024 & 2031
- Figure 12. Global CO2 Sensor for Fresh Air System Consumption Value and Forecast (2020-2031) & (USD Million)
- Figure 13. Global CO2 Sensor for Fresh Air System Sales Quantity (2020-2031) & (K Units)
- Figure 14. Global CO2 Sensor for Fresh Air System Price (2020-2031) & (US\$/Unit)
- Figure 15. Global CO2 Sensor for Fresh Air System Sales Quantity Market Share by Manufacturer in 2024
- Figure 16. Global CO2 Sensor for Fresh Air System Revenue Market Share by Manufacturer in 2024
- Figure 17. Producer Shipments of CO2 Sensor for Fresh Air System by Manufacturer Sales (\$MM) and Market Share (%): 2024
- Figure 18. Top 3 CO2 Sensor for Fresh Air System Manufacturer (Revenue) Market Share in 2024
- Figure 19. Top 6 CO2 Sensor for Fresh Air System Manufacturer (Revenue) Market Share in 2024
- Figure 20. Global CO2 Sensor for Fresh Air System Sales Quantity Market Share by Region (2020-2031)
- Figure 21. Global CO2 Sensor for Fresh Air System Consumption Value Market Share by Region (2020-2031)

Figure 22. North America CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 23. Europe CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 24. Asia-Pacific CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 25. South America CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 26. Middle East & Africa CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 27. Global CO2 Sensor for Fresh Air System Sales Quantity Market Share by Type (2020-2031)

Figure 28. Global CO2 Sensor for Fresh Air System Consumption Value Market Share by Type (2020-2031)

Figure 29. Global CO2 Sensor for Fresh Air System Average Price by Type (2020-2031) & (US\$/Unit)

Figure 30. Global CO2 Sensor for Fresh Air System Sales Quantity Market Share by Application (2020-2031)

Figure 31. Global CO2 Sensor for Fresh Air System Revenue Market Share by Application (2020-2031)

Figure 32. Global CO2 Sensor for Fresh Air System Average Price by Application (2020-2031) & (US\$/Unit)

Figure 33. North America CO2 Sensor for Fresh Air System Sales Quantity Market Share by Type (2020-2031)

Figure 34. North America CO2 Sensor for Fresh Air System Sales Quantity Market Share by Application (2020-2031)

Figure 35. North America CO2 Sensor for Fresh Air System Sales Quantity Market Share by Country (2020-2031)

Figure 36. North America CO2 Sensor for Fresh Air System Consumption Value Market Share by Country (2020-2031)

Figure 37. United States CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 38. Canada CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 39. Mexico CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 40. Europe CO2 Sensor for Fresh Air System Sales Quantity Market Share by Type (2020-2031)

Figure 41. Europe CO2 Sensor for Fresh Air System Sales Quantity Market Share by

Application (2020-2031)

Figure 42. Europe CO2 Sensor for Fresh Air System Sales Quantity Market Share by Country (2020-2031)

Figure 43. Europe CO2 Sensor for Fresh Air System Consumption Value Market Share by Country (2020-2031)

Figure 44. Germany CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 45. France CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 46. United Kingdom CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 47. Russia CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 48. Italy CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 49. Asia-Pacific CO2 Sensor for Fresh Air System Sales Quantity Market Share by Type (2020-2031)

Figure 50. Asia-Pacific CO2 Sensor for Fresh Air System Sales Quantity Market Share by Application (2020-2031)

Figure 51. Asia-Pacific CO2 Sensor for Fresh Air System Sales Quantity Market Share by Region (2020-2031)

Figure 52. Asia-Pacific CO2 Sensor for Fresh Air System Consumption Value Market Share by Region (2020-2031)

Figure 53. China CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 54. Japan CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 55. South Korea CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 56. India CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 57. Southeast Asia CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 58. Australia CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 59. South America CO2 Sensor for Fresh Air System Sales Quantity Market Share by Type (2020-2031)

Figure 60. South America CO2 Sensor for Fresh Air System Sales Quantity Market Share by Application (2020-2031)

Figure 61. South America CO2 Sensor for Fresh Air System Sales Quantity Market Share by Country (2020-2031)

Figure 62. South America CO2 Sensor for Fresh Air System Consumption Value Market Share by Country (2020-2031)

Figure 63. Brazil CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 64. Argentina CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 65. Middle East & Africa CO2 Sensor for Fresh Air System Sales Quantity Market Share by Type (2020-2031)

Figure 66. Middle East & Africa CO2 Sensor for Fresh Air System Sales Quantity Market Share by Application (2020-2031)

Figure 67. Middle East & Africa CO2 Sensor for Fresh Air System Sales Quantity Market Share by Country (2020-2031)

Figure 68. Middle East & Africa CO2 Sensor for Fresh Air System Consumption Value Market Share by Country (2020-2031)

Figure 69. Turkey CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 70. Egypt CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 71. Saudi Arabia CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 72. South Africa CO2 Sensor for Fresh Air System Consumption Value (2020-2031) & (USD Million)

Figure 73. CO2 Sensor for Fresh Air System Market Drivers

Figure 74. CO2 Sensor for Fresh Air System Market Restraints

Figure 75. CO2 Sensor for Fresh Air System Market Trends

Figure 76. Porters Five Forces Analysis

Figure 77. Manufacturing Cost Structure Analysis of CO2 Sensor for Fresh Air System in 2024

Figure 78. Manufacturing Process Analysis of CO2 Sensor for Fresh Air System

Figure 79. CO2 Sensor for Fresh Air System Industrial Chain

Figure 80. Sales Channel: Direct to End-User vs Distributors

Figure 81. Direct Channel Pros & Cons

Figure 82. Indirect Channel Pros & Cons

Figure 83. Methodology

Figure 84. Research Process and Data Source

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