

Global Automotive Gas Analyzer 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 Automotive Gas Analyzer market size was valued at US\$ 390 million in 2024 and is forecast to a readjusted size of USD 623 million by 2031 with a CAGR of 7.0% 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.

An automotive gas analyzer is a diagnostic tool used to measure the concentration of various gases emitted by an internal combustion engine to ensure that it meets emission standards and gives the best possible output. These products have been very pivotal for automotive service shops and environment monitoring. They detect the concentration levels of carbon monoxide (CO), carbon dioxide (CO₂), hydrocarbons (HC), and even nitrogen oxides (NO_x) in an exhaust gas. Automotive gas analyzers are utilized in diagnosing problems in engines, for engine tuning and its improvement in fuel efficiency, and applied to ensure that vehicles comply with set standards of emission. There are a number of technologies with varying advantages when used in automotive gas analyzers. NDIR is a technology applied to measure gas concentrations through detection of the absorption of infrared light by the specific gas molecules. The method is quite efficient when sensing gases, such as CO₂ and CO. NDUV measures the absorption of ultraviolet light by the gas molecules. Catalytic sensors measure combustible gases like hydrocarbons by catalytically oxidizing them and detecting the heat change resulting from such oxidation. Electrochemical sensors have electrochemical reactions, which enable sensitive and selective measurements of specific gases such as CO and NO_x.

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

Global Automotive Gas Analyzer 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 Automotive Gas Analyzer 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 Automotive Gas Analyzer 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 Automotive Gas Analyzer
- 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 Automotive Gas Analyzer 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 Teledyne, ABB, Honeywell, Enotec, Fuji Electric, Emerson Electric, Siemens, SICK AG, Gasera, Testo, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Automotive Gas Analyzer 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

Fixed

Portable

Market segment by Application

Exhaust System

Cabin Air Quality Monitoring

Fuel Cell Vehicles

Catalytic Converters

Others

Major players covered

Teledyne

ABB

Honeywell

Enotec

Fuji Electric

Emerson Electric

Siemens

SICK AG

Gasera

Testo

Yokogawa Electric Corp.

Servomex Group Limited

Thermo Fisher Scientific Inc.

Buhler Technologies GmbH

Signal Group Ltd

smartGAS Mikrosensorik GmbH

Advanced Micro Instruments Inc.

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 Automotive Gas Analyzer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Gas Analyzer, with price, sales quantity, revenue, and global market share of Automotive Gas Analyzer from 2020 to 2025.

Chapter 3, the Automotive Gas Analyzer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Gas Analyzer 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 Automotive Gas Analyzer 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 Automotive Gas Analyzer.

Chapter 14 and 15, to describe Automotive Gas Analyzer 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 Automotive Gas Analyzer Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Fixed

1.3.3 Portable

1.4 Market Analysis by Application

1.4.1 Overview: Global Automotive Gas Analyzer Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Exhaust System

1.4.3 Cabin Air Quality Monitoring

1.4.4 Fuel Cell Vehicles

1.4.5 Catalytic Converters

1.4.6 Others

1.5 Global Automotive Gas Analyzer Market Size & Forecast

1.5.1 Global Automotive Gas Analyzer Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Automotive Gas Analyzer Sales Quantity (2020-2031)

1.5.3 Global Automotive Gas Analyzer Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Teledyne

2.1.1 Teledyne Details

2.1.2 Teledyne Major Business

2.1.3 Teledyne Automotive Gas Analyzer Product and Services

2.1.4 Teledyne Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Teledyne Recent Developments/Updates

2.2 ABB

2.2.1 ABB Details

2.2.2 ABB Major Business

2.2.3 ABB Automotive Gas Analyzer Product and Services

2.2.4 ABB Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

- 2.2.5 ABB Recent Developments/Updates
- 2.3 Honeywell
 - 2.3.1 Honeywell Details
 - 2.3.2 Honeywell Major Business
 - 2.3.3 Honeywell Automotive Gas Analyzer Product and Services
 - 2.3.4 Honeywell Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.3.5 Honeywell Recent Developments/Updates
- 2.4 Enotec
 - 2.4.1 Enotec Details
 - 2.4.2 Enotec Major Business
 - 2.4.3 Enotec Automotive Gas Analyzer Product and Services
 - 2.4.4 Enotec Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.4.5 Enotec Recent Developments/Updates
- 2.5 Fuji Electric
 - 2.5.1 Fuji Electric Details
 - 2.5.2 Fuji Electric Major Business
 - 2.5.3 Fuji Electric Automotive Gas Analyzer Product and Services
 - 2.5.4 Fuji Electric Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.5.5 Fuji Electric Recent Developments/Updates
- 2.6 Emerson Electric
 - 2.6.1 Emerson Electric Details
 - 2.6.2 Emerson Electric Major Business
 - 2.6.3 Emerson Electric Automotive Gas Analyzer Product and Services
 - 2.6.4 Emerson Electric Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.6.5 Emerson Electric Recent Developments/Updates
- 2.7 Siemens
 - 2.7.1 Siemens Details
 - 2.7.2 Siemens Major Business
 - 2.7.3 Siemens Automotive Gas Analyzer Product and Services
 - 2.7.4 Siemens Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.7.5 Siemens Recent Developments/Updates
- 2.8 SICK AG
 - 2.8.1 SICK AG Details
 - 2.8.2 SICK AG Major Business

- 2.8.3 SICK AG Automotive Gas Analyzer Product and Services
- 2.8.4 SICK AG Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 SICK AG Recent Developments/Updates
- 2.9 Gasera
 - 2.9.1 Gasera Details
 - 2.9.2 Gasera Major Business
 - 2.9.3 Gasera Automotive Gas Analyzer Product and Services
 - 2.9.4 Gasera Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.9.5 Gasera Recent Developments/Updates
- 2.10 Testo
 - 2.10.1 Testo Details
 - 2.10.2 Testo Major Business
 - 2.10.3 Testo Automotive Gas Analyzer Product and Services
 - 2.10.4 Testo Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.10.5 Testo Recent Developments/Updates
- 2.11 Yokogawa Electric Corp.
 - 2.11.1 Yokogawa Electric Corp. Details
 - 2.11.2 Yokogawa Electric Corp. Major Business
 - 2.11.3 Yokogawa Electric Corp. Automotive Gas Analyzer Product and Services
 - 2.11.4 Yokogawa Electric Corp. Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.11.5 Yokogawa Electric Corp. Recent Developments/Updates
- 2.12 Servomex Group Limited
 - 2.12.1 Servomex Group Limited Details
 - 2.12.2 Servomex Group Limited Major Business
 - 2.12.3 Servomex Group Limited Automotive Gas Analyzer Product and Services
 - 2.12.4 Servomex Group Limited Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.12.5 Servomex Group Limited Recent Developments/Updates
- 2.13 Thermo Fisher Scientific Inc.
 - 2.13.1 Thermo Fisher Scientific Inc. Details
 - 2.13.2 Thermo Fisher Scientific Inc. Major Business
 - 2.13.3 Thermo Fisher Scientific Inc. Automotive Gas Analyzer Product and Services
 - 2.13.4 Thermo Fisher Scientific Inc. Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.13.5 Thermo Fisher Scientific Inc. Recent Developments/Updates

2.14 Buhler Technologies GmbH

2.14.1 Buhler Technologies GmbH Details

2.14.2 Buhler Technologies GmbH Major Business

2.14.3 Buhler Technologies GmbH Automotive Gas Analyzer Product and Services

2.14.4 Buhler Technologies GmbH Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.14.5 Buhler Technologies GmbH Recent Developments/Updates

2.15 Signal Group Ltd

2.15.1 Signal Group Ltd Details

2.15.2 Signal Group Ltd Major Business

2.15.3 Signal Group Ltd Automotive Gas Analyzer Product and Services

2.15.4 Signal Group Ltd Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.15.5 Signal Group Ltd Recent Developments/Updates

2.16 smartGAS Mikrosensorik GmbH

2.16.1 smartGAS Mikrosensorik GmbH Details

2.16.2 smartGAS Mikrosensorik GmbH Major Business

2.16.3 smartGAS Mikrosensorik GmbH Automotive Gas Analyzer Product and Services

2.16.4 smartGAS Mikrosensorik GmbH Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.16.5 smartGAS Mikrosensorik GmbH Recent Developments/Updates

2.17 Advanced Micro Instruments Inc.

2.17.1 Advanced Micro Instruments Inc. Details

2.17.2 Advanced Micro Instruments Inc. Major Business

2.17.3 Advanced Micro Instruments Inc. Automotive Gas Analyzer Product and Services

2.17.4 Advanced Micro Instruments Inc. Automotive Gas Analyzer Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.17.5 Advanced Micro Instruments Inc. Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: AUTOMOTIVE GAS ANALYZER BY MANUFACTURER

3.1 Global Automotive Gas Analyzer Sales Quantity by Manufacturer (2020-2025)

3.2 Global Automotive Gas Analyzer Revenue by Manufacturer (2020-2025)

3.3 Global Automotive Gas Analyzer Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of Automotive Gas Analyzer by Manufacturer Revenue

(\$MM) and Market Share (%): 2024

3.4.2 Top 3 Automotive Gas Analyzer Manufacturer Market Share in 2024

3.4.3 Top 6 Automotive Gas Analyzer Manufacturer Market Share in 2024

3.5 Automotive Gas Analyzer Market: Overall Company Footprint Analysis

3.5.1 Automotive Gas Analyzer Market: Region Footprint

3.5.2 Automotive Gas Analyzer Market: Company Product Type Footprint

3.5.3 Automotive Gas Analyzer 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 Automotive Gas Analyzer Market Size by Region

4.1.1 Global Automotive Gas Analyzer Sales Quantity by Region (2020-2031)

4.1.2 Global Automotive Gas Analyzer Consumption Value by Region (2020-2031)

4.1.3 Global Automotive Gas Analyzer Average Price by Region (2020-2031)

4.2 North America Automotive Gas Analyzer Consumption Value (2020-2031)

4.3 Europe Automotive Gas Analyzer Consumption Value (2020-2031)

4.4 Asia-Pacific Automotive Gas Analyzer Consumption Value (2020-2031)

4.5 South America Automotive Gas Analyzer Consumption Value (2020-2031)

4.6 Middle East & Africa Automotive Gas Analyzer Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

5.1 Global Automotive Gas Analyzer Sales Quantity by Type (2020-2031)

5.2 Global Automotive Gas Analyzer Consumption Value by Type (2020-2031)

5.3 Global Automotive Gas Analyzer Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Automotive Gas Analyzer Sales Quantity by Application (2020-2031)

6.2 Global Automotive Gas Analyzer Consumption Value by Application (2020-2031)

6.3 Global Automotive Gas Analyzer Average Price by Application (2020-2031)

7 NORTH AMERICA

7.1 North America Automotive Gas Analyzer Sales Quantity by Type (2020-2031)

7.2 North America Automotive Gas Analyzer Sales Quantity by Application (2020-2031)

7.3 North America Automotive Gas Analyzer Market Size by Country

- 7.3.1 North America Automotive Gas Analyzer Sales Quantity by Country (2020-2031)
- 7.3.2 North America Automotive Gas Analyzer 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 Automotive Gas Analyzer Sales Quantity by Type (2020-2031)
- 8.2 Europe Automotive Gas Analyzer Sales Quantity by Application (2020-2031)
- 8.3 Europe Automotive Gas Analyzer Market Size by Country
 - 8.3.1 Europe Automotive Gas Analyzer Sales Quantity by Country (2020-2031)
 - 8.3.2 Europe Automotive Gas Analyzer 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 Automotive Gas Analyzer Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific Automotive Gas Analyzer Sales Quantity by Application (2020-2031)
- 9.3 Asia-Pacific Automotive Gas Analyzer Market Size by Region
 - 9.3.1 Asia-Pacific Automotive Gas Analyzer Sales Quantity by Region (2020-2031)
 - 9.3.2 Asia-Pacific Automotive Gas Analyzer 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 Automotive Gas Analyzer Sales Quantity by Type (2020-2031)
- 10.2 South America Automotive Gas Analyzer Sales Quantity by Application

(2020-2031)

10.3 South America Automotive Gas Analyzer Market Size by Country

10.3.1 South America Automotive Gas Analyzer Sales Quantity by Country

(2020-2031)

10.3.2 South America Automotive Gas Analyzer 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 Automotive Gas Analyzer Sales Quantity by Type

(2020-2031)

11.2 Middle East & Africa Automotive Gas Analyzer Sales Quantity by Application

(2020-2031)

11.3 Middle East & Africa Automotive Gas Analyzer Market Size by Country

11.3.1 Middle East & Africa Automotive Gas Analyzer Sales Quantity by Country

(2020-2031)

11.3.2 Middle East & Africa Automotive Gas Analyzer 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 Automotive Gas Analyzer Market Drivers

12.2 Automotive Gas Analyzer Market Restraints

12.3 Automotive Gas Analyzer 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 Automotive Gas Analyzer and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Automotive Gas Analyzer
- 13.3 Automotive Gas Analyzer 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 Automotive Gas Analyzer Typical Distributors
- 14.3 Automotive Gas Analyzer 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 Automotive Gas Analyzer Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Automotive Gas Analyzer Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Teledyne Basic Information, Manufacturing Base and Competitors

Table 4. Teledyne Major Business

Table 5. Teledyne Automotive Gas Analyzer Product and Services

Table 6. Teledyne Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Teledyne Recent Developments/Updates

Table 8. ABB Basic Information, Manufacturing Base and Competitors

Table 9. ABB Major Business

Table 10. ABB Automotive Gas Analyzer Product and Services

Table 11. ABB Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. ABB Recent Developments/Updates

Table 13. Honeywell Basic Information, Manufacturing Base and Competitors

Table 14. Honeywell Major Business

Table 15. Honeywell Automotive Gas Analyzer Product and Services

Table 16. Honeywell Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Honeywell Recent Developments/Updates

Table 18. Enotec Basic Information, Manufacturing Base and Competitors

Table 19. Enotec Major Business

Table 20. Enotec Automotive Gas Analyzer Product and Services

Table 21. Enotec Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Enotec Recent Developments/Updates

Table 23. Fuji Electric Basic Information, Manufacturing Base and Competitors

Table 24. Fuji Electric Major Business

Table 25. Fuji Electric Automotive Gas Analyzer Product and Services

Table 26. Fuji Electric Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Fuji Electric Recent Developments/Updates

Table 28. Emerson Electric Basic Information, Manufacturing Base and Competitors

- Table 29. Emerson Electric Major Business
- Table 30. Emerson Electric Automotive Gas Analyzer Product and Services
- Table 31. Emerson Electric Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 32. Emerson Electric Recent Developments/Updates
- Table 33. Siemens Basic Information, Manufacturing Base and Competitors
- Table 34. Siemens Major Business
- Table 35. Siemens Automotive Gas Analyzer Product and Services
- Table 36. Siemens Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 37. Siemens Recent Developments/Updates
- Table 38. SICK AG Basic Information, Manufacturing Base and Competitors
- Table 39. SICK AG Major Business
- Table 40. SICK AG Automotive Gas Analyzer Product and Services
- Table 41. SICK AG Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 42. SICK AG Recent Developments/Updates
- Table 43. Gasera Basic Information, Manufacturing Base and Competitors
- Table 44. Gasera Major Business
- Table 45. Gasera Automotive Gas Analyzer Product and Services
- Table 46. Gasera Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 47. Gasera Recent Developments/Updates
- Table 48. Testo Basic Information, Manufacturing Base and Competitors
- Table 49. Testo Major Business
- Table 50. Testo Automotive Gas Analyzer Product and Services
- Table 51. Testo Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 52. Testo Recent Developments/Updates
- Table 53. Yokogawa Electric Corp. Basic Information, Manufacturing Base and Competitors
- Table 54. Yokogawa Electric Corp. Major Business
- Table 55. Yokogawa Electric Corp. Automotive Gas Analyzer Product and Services
- Table 56. Yokogawa Electric Corp. Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 57. Yokogawa Electric Corp. Recent Developments/Updates
- Table 58. Servomex Group Limited Basic Information, Manufacturing Base and Competitors

Table 59. Servomex Group Limited Major Business

Table 60. Servomex Group Limited Automotive Gas Analyzer Product and Services

Table 61. Servomex Group Limited Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. Servomex Group Limited Recent Developments/Updates

Table 63. Thermo Fisher Scientific Inc. Basic Information, Manufacturing Base and Competitors

Table 64. Thermo Fisher Scientific Inc. Major Business

Table 65. Thermo Fisher Scientific Inc. Automotive Gas Analyzer Product and Services

Table 66. Thermo Fisher Scientific Inc. Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. Thermo Fisher Scientific Inc. Recent Developments/Updates

Table 68. Buhler Technologies GmbH Basic Information, Manufacturing Base and Competitors

Table 69. Buhler Technologies GmbH Major Business

Table 70. Buhler Technologies GmbH Automotive Gas Analyzer Product and Services

Table 71. Buhler Technologies GmbH Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 72. Buhler Technologies GmbH Recent Developments/Updates

Table 73. Signal Group Ltd Basic Information, Manufacturing Base and Competitors

Table 74. Signal Group Ltd Major Business

Table 75. Signal Group Ltd Automotive Gas Analyzer Product and Services

Table 76. Signal Group Ltd Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 77. Signal Group Ltd Recent Developments/Updates

Table 78. smartGAS Mikrosensorik GmbH Basic Information, Manufacturing Base and Competitors

Table 79. smartGAS Mikrosensorik GmbH Major Business

Table 80. smartGAS Mikrosensorik GmbH Automotive Gas Analyzer Product and Services

Table 81. smartGAS Mikrosensorik GmbH Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 82. smartGAS Mikrosensorik GmbH Recent Developments/Updates

Table 83. Advanced Micro Instruments Inc. Basic Information, Manufacturing Base and Competitors

Table 84. Advanced Micro Instruments Inc. Major Business

Table 85. Advanced Micro Instruments Inc. Automotive Gas Analyzer Product and Services

Table 86. Advanced Micro Instruments Inc. Automotive Gas Analyzer Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 87. Advanced Micro Instruments Inc. Recent Developments/Updates

Table 88. Global Automotive Gas Analyzer Sales Quantity by Manufacturer (2020-2025) & (K Units)

Table 89. Global Automotive Gas Analyzer Revenue by Manufacturer (2020-2025) & (USD Million)

Table 90. Global Automotive Gas Analyzer Average Price by Manufacturer (2020-2025) & (US\$/Unit)

Table 91. Market Position of Manufacturers in Automotive Gas Analyzer, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 92. Head Office and Automotive Gas Analyzer Production Site of Key Manufacturer

Table 93. Automotive Gas Analyzer Market: Company Product Type Footprint

Table 94. Automotive Gas Analyzer Market: Company Product Application Footprint

Table 95. Automotive Gas Analyzer New Market Entrants and Barriers to Market Entry

Table 96. Automotive Gas Analyzer Mergers, Acquisition, Agreements, and Collaborations

Table 97. Global Automotive Gas Analyzer Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 98. Global Automotive Gas Analyzer Sales Quantity by Region (2020-2025) & (K Units)

Table 99. Global Automotive Gas Analyzer Sales Quantity by Region (2026-2031) & (K Units)

Table 100. Global Automotive Gas Analyzer Consumption Value by Region (2020-2025) & (USD Million)

Table 101. Global Automotive Gas Analyzer Consumption Value by Region (2026-2031) & (USD Million)

Table 102. Global Automotive Gas Analyzer Average Price by Region (2020-2025) & (US\$/Unit)

Table 103. Global Automotive Gas Analyzer Average Price by Region (2026-2031) & (US\$/Unit)

Table 104. Global Automotive Gas Analyzer Sales Quantity by Type (2020-2025) & (K Units)

Table 105. Global Automotive Gas Analyzer Sales Quantity by Type (2026-2031) & (K

Units)

Table 106. Global Automotive Gas Analyzer Consumption Value by Type (2020-2025) & (USD Million)

Table 107. Global Automotive Gas Analyzer Consumption Value by Type (2026-2031) & (USD Million)

Table 108. Global Automotive Gas Analyzer Average Price by Type (2020-2025) & (US\$/Unit)

Table 109. Global Automotive Gas Analyzer Average Price by Type (2026-2031) & (US\$/Unit)

Table 110. Global Automotive Gas Analyzer Sales Quantity by Application (2020-2025) & (K Units)

Table 111. Global Automotive Gas Analyzer Sales Quantity by Application (2026-2031) & (K Units)

Table 112. Global Automotive Gas Analyzer Consumption Value by Application (2020-2025) & (USD Million)

Table 113. Global Automotive Gas Analyzer Consumption Value by Application (2026-2031) & (USD Million)

Table 114. Global Automotive Gas Analyzer Average Price by Application (2020-2025) & (US\$/Unit)

Table 115. Global Automotive Gas Analyzer Average Price by Application (2026-2031) & (US\$/Unit)

Table 116. North America Automotive Gas Analyzer Sales Quantity by Type (2020-2025) & (K Units)

Table 117. North America Automotive Gas Analyzer Sales Quantity by Type (2026-2031) & (K Units)

Table 118. North America Automotive Gas Analyzer Sales Quantity by Application (2020-2025) & (K Units)

Table 119. North America Automotive Gas Analyzer Sales Quantity by Application (2026-2031) & (K Units)

Table 120. North America Automotive Gas Analyzer Sales Quantity by Country (2020-2025) & (K Units)

Table 121. North America Automotive Gas Analyzer Sales Quantity by Country (2026-2031) & (K Units)

Table 122. North America Automotive Gas Analyzer Consumption Value by Country (2020-2025) & (USD Million)

Table 123. North America Automotive Gas Analyzer Consumption Value by Country (2026-2031) & (USD Million)

Table 124. Europe Automotive Gas Analyzer Sales Quantity by Type (2020-2025) & (K Units)

- Table 125. Europe Automotive Gas Analyzer Sales Quantity by Type (2026-2031) & (K Units)
- Table 126. Europe Automotive Gas Analyzer Sales Quantity by Application (2020-2025) & (K Units)
- Table 127. Europe Automotive Gas Analyzer Sales Quantity by Application (2026-2031) & (K Units)
- Table 128. Europe Automotive Gas Analyzer Sales Quantity by Country (2020-2025) & (K Units)
- Table 129. Europe Automotive Gas Analyzer Sales Quantity by Country (2026-2031) & (K Units)
- Table 130. Europe Automotive Gas Analyzer Consumption Value by Country (2020-2025) & (USD Million)
- Table 131. Europe Automotive Gas Analyzer Consumption Value by Country (2026-2031) & (USD Million)
- Table 132. Asia-Pacific Automotive Gas Analyzer Sales Quantity by Type (2020-2025) & (K Units)
- Table 133. Asia-Pacific Automotive Gas Analyzer Sales Quantity by Type (2026-2031) & (K Units)
- Table 134. Asia-Pacific Automotive Gas Analyzer Sales Quantity by Application (2020-2025) & (K Units)
- Table 135. Asia-Pacific Automotive Gas Analyzer Sales Quantity by Application (2026-2031) & (K Units)
- Table 136. Asia-Pacific Automotive Gas Analyzer Sales Quantity by Region (2020-2025) & (K Units)
- Table 137. Asia-Pacific Automotive Gas Analyzer Sales Quantity by Region (2026-2031) & (K Units)
- Table 138. Asia-Pacific Automotive Gas Analyzer Consumption Value by Region (2020-2025) & (USD Million)
- Table 139. Asia-Pacific Automotive Gas Analyzer Consumption Value by Region (2026-2031) & (USD Million)
- Table 140. South America Automotive Gas Analyzer Sales Quantity by Type (2020-2025) & (K Units)
- Table 141. South America Automotive Gas Analyzer Sales Quantity by Type (2026-2031) & (K Units)
- Table 142. South America Automotive Gas Analyzer Sales Quantity by Application (2020-2025) & (K Units)
- Table 143. South America Automotive Gas Analyzer Sales Quantity by Application (2026-2031) & (K Units)
- Table 144. South America Automotive Gas Analyzer Sales Quantity by Country

(2020-2025) & (K Units)

Table 145. South America Automotive Gas Analyzer Sales Quantity by Country

(2026-2031) & (K Units)

Table 146. South America Automotive Gas Analyzer Consumption Value by Country

(2020-2025) & (USD Million)

Table 147. South America Automotive Gas Analyzer Consumption Value by Country

(2026-2031) & (USD Million)

Table 148. Middle East & Africa Automotive Gas Analyzer Sales Quantity by Type

(2020-2025) & (K Units)

Table 149. Middle East & Africa Automotive Gas Analyzer Sales Quantity by Type

(2026-2031) & (K Units)

Table 150. Middle East & Africa Automotive Gas Analyzer Sales Quantity by Application

(2020-2025) & (K Units)

Table 151. Middle East & Africa Automotive Gas Analyzer Sales Quantity by Application

(2026-2031) & (K Units)

Table 152. Middle East & Africa Automotive Gas Analyzer Sales Quantity by Country

(2020-2025) & (K Units)

Table 153. Middle East & Africa Automotive Gas Analyzer Sales Quantity by Country

(2026-2031) & (K Units)

Table 154. Middle East & Africa Automotive Gas Analyzer Consumption Value by Country (2020-2025) & (USD Million)

Table 155. Middle East & Africa Automotive Gas Analyzer Consumption Value by Country (2026-2031) & (USD Million)

Table 156. Automotive Gas Analyzer Raw Material

Table 157. Key Manufacturers of Automotive Gas Analyzer Raw Materials

Table 158. Automotive Gas Analyzer Typical Distributors

Table 159. Automotive Gas Analyzer Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Automotive Gas Analyzer Picture

Figure 2. Global Automotive Gas Analyzer Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Automotive Gas Analyzer Revenue Market Share by Type in 2024

Figure 4. Fixed Examples

Figure 5. Portable Examples

Figure 6. Global Automotive Gas Analyzer Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global Automotive Gas Analyzer Revenue Market Share by Application in 2024

Figure 8. Exhaust System Examples

Figure 9. Cabin Air Quality Monitoring Examples

Figure 10. Fuel Cell Vehicles Examples

Figure 11. Catalytic Converters Examples

Figure 12. Others Examples

Figure 13. Global Automotive Gas Analyzer Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 14. Global Automotive Gas Analyzer Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 15. Global Automotive Gas Analyzer Sales Quantity (2020-2031) & (K Units)

Figure 16. Global Automotive Gas Analyzer Price (2020-2031) & (US\$/Unit)

Figure 17. Global Automotive Gas Analyzer Sales Quantity Market Share by Manufacturer in 2024

Figure 18. Global Automotive Gas Analyzer Revenue Market Share by Manufacturer in 2024

Figure 19. Producer Shipments of Automotive Gas Analyzer by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 20. Top 3 Automotive Gas Analyzer Manufacturer (Revenue) Market Share in 2024

Figure 21. Top 6 Automotive Gas Analyzer Manufacturer (Revenue) Market Share in 2024

Figure 22. Global Automotive Gas Analyzer Sales Quantity Market Share by Region (2020-2031)

Figure 23. Global Automotive Gas Analyzer Consumption Value Market Share by Region (2020-2031)

- Figure 24. North America Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)
- Figure 25. Europe Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)
- Figure 26. Asia-Pacific Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)
- Figure 27. South America Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)
- Figure 28. Middle East & Africa Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)
- Figure 29. Global Automotive Gas Analyzer Sales Quantity Market Share by Type (2020-2031)
- Figure 30. Global Automotive Gas Analyzer Consumption Value Market Share by Type (2020-2031)
- Figure 31. Global Automotive Gas Analyzer Average Price by Type (2020-2031) & (US\$/Unit)
- Figure 32. Global Automotive Gas Analyzer Sales Quantity Market Share by Application (2020-2031)
- Figure 33. Global Automotive Gas Analyzer Revenue Market Share by Application (2020-2031)
- Figure 34. Global Automotive Gas Analyzer Average Price by Application (2020-2031) & (US\$/Unit)
- Figure 35. North America Automotive Gas Analyzer Sales Quantity Market Share by Type (2020-2031)
- Figure 36. North America Automotive Gas Analyzer Sales Quantity Market Share by Application (2020-2031)
- Figure 37. North America Automotive Gas Analyzer Sales Quantity Market Share by Country (2020-2031)
- Figure 38. North America Automotive Gas Analyzer Consumption Value Market Share by Country (2020-2031)
- Figure 39. United States Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)
- Figure 40. Canada Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)
- Figure 41. Mexico Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)
- Figure 42. Europe Automotive Gas Analyzer Sales Quantity Market Share by Type (2020-2031)
- Figure 43. Europe Automotive Gas Analyzer Sales Quantity Market Share by

Application (2020-2031)

Figure 44. Europe Automotive Gas Analyzer Sales Quantity Market Share by Country (2020-2031)

Figure 45. Europe Automotive Gas Analyzer Consumption Value Market Share by Country (2020-2031)

Figure 46. Germany Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)

Figure 47. France Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)

Figure 48. United Kingdom Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)

Figure 49. Russia Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)

Figure 50. Italy Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)

Figure 51. Asia-Pacific Automotive Gas Analyzer Sales Quantity Market Share by Type (2020-2031)

Figure 52. Asia-Pacific Automotive Gas Analyzer Sales Quantity Market Share by Application (2020-2031)

Figure 53. Asia-Pacific Automotive Gas Analyzer Sales Quantity Market Share by Region (2020-2031)

Figure 54. Asia-Pacific Automotive Gas Analyzer Consumption Value Market Share by Region (2020-2031)

Figure 55. China Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)

Figure 56. Japan Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)

Figure 57. South Korea Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)

Figure 58. India Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)

Figure 59. Southeast Asia Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)

Figure 60. Australia Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)

Figure 61. South America Automotive Gas Analyzer Sales Quantity Market Share by Type (2020-2031)

Figure 62. South America Automotive Gas Analyzer Sales Quantity Market Share by Application (2020-2031)

- Figure 63. South America Automotive Gas Analyzer Sales Quantity Market Share by Country (2020-2031)
- Figure 64. South America Automotive Gas Analyzer Consumption Value Market Share by Country (2020-2031)
- Figure 65. Brazil Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)
- Figure 66. Argentina Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)
- Figure 67. Middle East & Africa Automotive Gas Analyzer Sales Quantity Market Share by Type (2020-2031)
- Figure 68. Middle East & Africa Automotive Gas Analyzer Sales Quantity Market Share by Application (2020-2031)
- Figure 69. Middle East & Africa Automotive Gas Analyzer Sales Quantity Market Share by Country (2020-2031)
- Figure 70. Middle East & Africa Automotive Gas Analyzer Consumption Value Market Share by Country (2020-2031)
- Figure 71. Turkey Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)
- Figure 72. Egypt Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)
- Figure 73. Saudi Arabia Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)
- Figure 74. South Africa Automotive Gas Analyzer Consumption Value (2020-2031) & (USD Million)
- Figure 75. Automotive Gas Analyzer Market Drivers
- Figure 76. Automotive Gas Analyzer Market Restraints
- Figure 77. Automotive Gas Analyzer Market Trends
- Figure 78. Porters Five Forces Analysis
- Figure 79. Manufacturing Cost Structure Analysis of Automotive Gas Analyzer in 2024
- Figure 80. Manufacturing Process Analysis of Automotive Gas Analyzer
- Figure 81. Automotive Gas Analyzer Industrial Chain
- Figure 82. Sales Channel: Direct to End-User vs Distributors
- Figure 83. Direct Channel Pros & Cons
- Figure 84. Indirect Channel Pros & Cons
- Figure 85. Methodology
- Figure 86. Research Process and Data Source

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