

Global Electrochemical Gas Sensors Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

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Abstracts

Summary

Electrochemical gas sensors are gas detectors that measure the concentration of a target gas by oxidizing or reducing the target gas at an electrode and measuring the resulting current.

The sensors contain two or three electrodes, occasionally four, in contact with an electrolyte. The electrodes are typically fabricated by fixing a high surface area precious metal on to the porous hydrophobic membrane. The working electrode contacts both the electrolyte and the ambient air to be monitored usually via a porous membrane. The electrolyte most commonly used is a mineral acid, but organic electrolytes are also used for some sensors. The electrodes and housing are usually in a plastic housing which contains a gas entry hole for the gas and electrical contacts.

The gas diffuses into the sensor, through the back of the porous membrane to the working electrode where it is oxidized or reduced. This electrochemical reaction results in an electric current that passes through the external circuit. In addition to measuring, amplifying and performing other signal processing functions, the external circuit maintains the voltage across the sensor between the working and counter electrodes for a two electrode sensor or between the working and reference electrodes for a three electrode cell. At the counter electrode an equal and opposite reaction occurs, such that if the working electrode is an oxidation, then the counter electrode is a reduction.

According to APO Research, The global Electrochemical Gas Sensors market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound

Annual Growth Rate (CAGR) of % during the forecast period.

The US & Canada market for Electrochemical Gas Sensors is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Electrochemical Gas Sensors is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for Electrochemical Gas Sensors is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Electrochemical Gas Sensors is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of Electrochemical Gas Sensors include City Technology, Alphasense, MEMBRAPOR, SGX Sensortech, Figaro, Draeger, Winsen, Dart and GE, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

In terms of production side, this report researches the Electrochemical Gas Sensors production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.

In terms of consumption side, this report focuses on the sales of Electrochemical Gas Sensors by region (region level and country level), by company, by type and by application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for Electrochemical Gas Sensors, capacity, output, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Electrochemical Gas Sensors, also provides the consumption of main regions and countries. Of the upcoming market potential for Electrochemical Gas Sensors, and key regions or countries of focus to

forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Electrochemical Gas Sensors sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Electrochemical Gas Sensors market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by type and by application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Electrochemical Gas Sensors sales, projected growth trends, production technology, application and end-user industry.

Electrochemical Gas Sensors segment by Company

City Technology

Alphasense

MEMBRAPOR

SGX Sensortech

Figaro

Draeger

Winsen

Dart

GE

Emerson

Electrochemical Gas Sensors segment by Type

Inflammable Gas Type

Toxic Gas Type

Other Gases Type

Electrochemical Gas Sensors segment by Application

Civil Gas Safety

Chemical & Oil

Mining

Environmental

Others

Electrochemical Gas Sensors segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Study Objectives

1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, capacity, production, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify significant trends, drivers, influence factors in global and regions.
6. To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Electrochemical Gas Sensors market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Electrochemical Gas Sensors and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market.
5. This report helps stakeholders to gain insights into which regions to target globally.
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Electrochemical Gas Sensors.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1: Provides an overview of the Electrochemical Gas Sensors market, including product definition, global market growth prospects, production value, capacity, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Electrochemical Gas Sensors industry.

Chapter 3: Detailed analysis of Electrochemical Gas Sensors market competition landscape. Including Electrochemical Gas Sensors manufacturers' output value, output and average price from 2019 to 2024, as well as competition analysis indicators such as origin, product type, application, merger and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 7: Production/Production Value of Electrochemical Gas Sensors by region. It

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

Chapter 8: Consumption of Electrochemical Gas Sensors in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights of the report.

Contents

1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
 - 1.2.1 Global Electrochemical Gas Sensors Production Value Estimates and Forecasts (2019-2030)
 - 1.2.2 Global Electrochemical Gas Sensors Production Capacity Estimates and Forecasts (2019-2030)
 - 1.2.3 Global Electrochemical Gas Sensors Production Estimates and Forecasts (2019-2030)
 - 1.2.4 Global Electrochemical Gas Sensors Market Average Price (2019-2030)
- 1.3 Assumptions and Limitations
- 1.4 Study Goals and Objectives

2 GLOBAL ELECTROCHEMICAL GAS SENSORS MARKET DYNAMICS

- 2.1 Electrochemical Gas Sensors Industry Trends
- 2.2 Electrochemical Gas Sensors Industry Drivers
- 2.3 Electrochemical Gas Sensors Industry Opportunities and Challenges
- 2.4 Electrochemical Gas Sensors Industry Restraints

3 ELECTROCHEMICAL GAS SENSORS MARKET BY MANUFACTURERS

- 3.1 Global Electrochemical Gas Sensors Production Value by Manufacturers (2019-2024)
- 3.2 Global Electrochemical Gas Sensors Production by Manufacturers (2019-2024)
- 3.3 Global Electrochemical Gas Sensors Average Price by Manufacturers (2019-2024)
- 3.4 Global Electrochemical Gas Sensors Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- 3.5 Global Electrochemical Gas Sensors Key Manufacturers Manufacturing Sites & Headquarters
- 3.6 Global Electrochemical Gas Sensors Manufacturers, Product Type & Application
- 3.7 Global Electrochemical Gas Sensors Manufacturers Commercialization Time
- 3.8 Market Competitive Analysis
 - 3.8.1 Global Electrochemical Gas Sensors Market CR5 and HHI
 - 3.8.2 Global Top 5 and 10 Electrochemical Gas Sensors Players Market Share by Production Value in 2023

3.8.3 2023 Electrochemical Gas Sensors Tier 1, Tier 2, and Tier

4 ELECTROCHEMICAL GAS SENSORS MARKET BY TYPE

4.1 Electrochemical Gas Sensors Type Introduction

4.1.1 Inflammable Gas Type

4.1.2 Toxic Gas Type

4.1.3 Other Gases Type

4.2 Global Electrochemical Gas Sensors Production by Type

4.2.1 Global Electrochemical Gas Sensors Production by Type (2019 VS 2023 VS 2030)

4.2.2 Global Electrochemical Gas Sensors Production by Type (2019-2030)

4.2.3 Global Electrochemical Gas Sensors Production Market Share by Type (2019-2030)

4.3 Global Electrochemical Gas Sensors Production Value by Type

4.3.1 Global Electrochemical Gas Sensors Production Value by Type (2019 VS 2023 VS 2030)

4.3.2 Global Electrochemical Gas Sensors Production Value by Type (2019-2030)

4.3.3 Global Electrochemical Gas Sensors Production Value Market Share by Type (2019-2030)

5 ELECTROCHEMICAL GAS SENSORS MARKET BY APPLICATION

5.1 Electrochemical Gas Sensors Application Introduction

5.1.1 Civil Gas Safety

5.1.2 Chemical & Oil

5.1.3 Mining

5.1.4 Environmental

5.1.5 Others

5.2 Global Electrochemical Gas Sensors Production by Application

5.2.1 Global Electrochemical Gas Sensors Production by Application (2019 VS 2023 VS 2030)

5.2.2 Global Electrochemical Gas Sensors Production by Application (2019-2030)

5.2.3 Global Electrochemical Gas Sensors Production Market Share by Application (2019-2030)

5.3 Global Electrochemical Gas Sensors Production Value by Application

5.3.1 Global Electrochemical Gas Sensors Production Value by Application (2019 VS 2023 VS 2030)

5.3.2 Global Electrochemical Gas Sensors Production Value by Application

(2019-2030)

5.3.3 Global Electrochemical Gas Sensors Production Value Market Share by Application (2019-2030)

6 COMPANY PROFILES

6.1 City Technology

6.1.1 City Technology Company Information

6.1.2 City Technology Business Overview

6.1.3 City Technology Electrochemical Gas Sensors Production, Value and Gross Margin (2019-2024)

6.1.4 City Technology Electrochemical Gas Sensors Product Portfolio

6.1.5 City Technology Recent Developments

6.2 Alphasense

6.2.1 Alphasense Company Information

6.2.2 Alphasense Business Overview

6.2.3 Alphasense Electrochemical Gas Sensors Production, Value and Gross Margin (2019-2024)

6.2.4 Alphasense Electrochemical Gas Sensors Product Portfolio

6.2.5 Alphasense Recent Developments

6.3 MEMBRAPOR

6.3.1 MEMBRAPOR Company Information

6.3.2 MEMBRAPOR Business Overview

6.3.3 MEMBRAPOR Electrochemical Gas Sensors Production, Value and Gross Margin (2019-2024)

6.3.4 MEMBRAPOR Electrochemical Gas Sensors Product Portfolio

6.3.5 MEMBRAPOR Recent Developments

6.4 SGX Sensortech

6.4.1 SGX Sensortech Company Information

6.4.2 SGX Sensortech Business Overview

6.4.3 SGX Sensortech Electrochemical Gas Sensors Production, Value and Gross Margin (2019-2024)

6.4.4 SGX Sensortech Electrochemical Gas Sensors Product Portfolio

6.4.5 SGX Sensortech Recent Developments

6.5 Figaro

6.5.1 Figaro Company Information

6.5.2 Figaro Business Overview

6.5.3 Figaro Electrochemical Gas Sensors Production, Value and Gross Margin (2019-2024)

6.5.4 Figaro Electrochemical Gas Sensors Product Portfolio

6.5.5 Figaro Recent Developments

6.6 Draeger

6.6.1 Draeger Comapny Information

6.6.2 Draeger Business Overview

6.6.3 Draeger Electrochemical Gas Sensors Production, Value and Gross Margin
(2019-2024)

6.6.4 Draeger Electrochemical Gas Sensors Product Portfolio

6.6.5 Draeger Recent Developments

6.7 Winsen

6.7.1 Winsen Comapny Information

6.7.2 Winsen Business Overview

6.7.3 Winsen Electrochemical Gas Sensors Production, Value and Gross Margin
(2019-2024)

6.7.4 Winsen Electrochemical Gas Sensors Product Portfolio

6.7.5 Winsen Recent Developments

6.8 Dart

6.8.1 Dart Comapny Information

6.8.2 Dart Business Overview

6.8.3 Dart Electrochemical Gas Sensors Production, Value and Gross Margin
(2019-2024)

6.8.4 Dart Electrochemical Gas Sensors Product Portfolio

6.8.5 Dart Recent Developments

6.9 GE

6.9.1 GE Comapny Information

6.9.2 GE Business Overview

6.9.3 GE Electrochemical Gas Sensors Production, Value and Gross Margin
(2019-2024)

6.9.4 GE Electrochemical Gas Sensors Product Portfolio

6.9.5 GE Recent Developments

6.10 Emerson

6.10.1 Emerson Comapny Information

6.10.2 Emerson Business Overview

6.10.3 Emerson Electrochemical Gas Sensors Production, Value and Gross Margin
(2019-2024)

6.10.4 Emerson Electrochemical Gas Sensors Product Portfolio

6.10.5 Emerson Recent Developments

7 GLOBAL ELECTROCHEMICAL GAS SENSORS PRODUCTION BY REGION

- 7.1 Global Electrochemical Gas Sensors Production by Region: 2019 VS 2023 VS 2030
- 7.2 Global Electrochemical Gas Sensors Production by Region (2019-2030)
 - 7.2.1 Global Electrochemical Gas Sensors Production by Region: 2019-2024
 - 7.2.2 Global Electrochemical Gas Sensors Production by Region (2025-2030)
- 7.3 Global Electrochemical Gas Sensors Production by Region: 2019 VS 2023 VS 2030
- 7.4 Global Electrochemical Gas Sensors Production Value by Region (2019-2030)
 - 7.4.1 Global Electrochemical Gas Sensors Production Value by Region: 2019-2024
 - 7.4.2 Global Electrochemical Gas Sensors Production Value by Region (2025-2030)
- 7.5 Global Electrochemical Gas Sensors Market Price Analysis by Region (2019-2024)
- 7.6 Regional Production Value Trends (2019-2030)
 - 7.6.1 North America Electrochemical Gas Sensors Production Value (2019-2030)
 - 7.6.2 Europe Electrochemical Gas Sensors Production Value (2019-2030)
 - 7.6.3 Asia-Pacific Electrochemical Gas Sensors Production Value (2019-2030)
 - 7.6.4 Latin America Electrochemical Gas Sensors Production Value (2019-2030)
 - 7.6.5 Middle East & Africa Electrochemical Gas Sensors Production Value (2019-2030)

8 GLOBAL ELECTROCHEMICAL GAS SENSORS CONSUMPTION BY REGION

- 8.1 Global Electrochemical Gas Sensors Consumption by Region: 2019 VS 2023 VS 2030
- 8.2 Global Electrochemical Gas Sensors Consumption by Region (2019-2030)
 - 8.2.1 Global Electrochemical Gas Sensors Consumption by Region (2019-2024)
 - 8.2.2 Global Electrochemical Gas Sensors Consumption by Region (2025-2030)
- 8.3 North America
 - 8.3.1 North America Electrochemical Gas Sensors Consumption Growth Rate by Country: 2019 VS 2023 VS 2030
 - 8.3.2 North America Electrochemical Gas Sensors Consumption by Country (2019-2030)
 - 8.3.3 U.S.
 - 8.3.4 Canada
- 8.4 Europe
 - 8.4.1 Europe Electrochemical Gas Sensors Consumption Growth Rate by Country: 2019 VS 2023 VS 2030
 - 8.4.2 Europe Electrochemical Gas Sensors Consumption by Country (2019-2030)
 - 8.4.3 Germany
 - 8.4.4 France
 - 8.4.5 U.K.

8.4.6 Italy

8.4.7 Netherlands

8.5 Asia Pacific

8.5.1 Asia Pacific Electrochemical Gas Sensors Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

8.5.2 Asia Pacific Electrochemical Gas Sensors Consumption by Country (2019-2030)

8.5.3 China

8.5.4 Japan

8.5.5 South Korea

8.5.6 Southeast Asia

8.5.7 India

8.5.8 Australia

8.6 LAMEA

8.6.1 LAMEA Electrochemical Gas Sensors Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

8.6.2 LAMEA Electrochemical Gas Sensors Consumption by Country (2019-2030)

8.6.3 Mexico

8.6.4 Brazil

8.6.5 Turkey

8.6.6 GCC Countries

9 VALUE CHAIN AND SALES CHANNELS ANALYSIS

9.1 Electrochemical Gas Sensors Value Chain Analysis

9.1.1 Electrochemical Gas Sensors Key Raw Materials

9.1.2 Raw Materials Key Suppliers

9.1.3 Manufacturing Cost Structure

9.1.4 Electrochemical Gas Sensors Production Mode & Process

9.2 Electrochemical Gas Sensors Sales Channels Analysis

9.2.1 Direct Comparison with Distribution Share

9.2.2 Electrochemical Gas Sensors Distributors

9.2.3 Electrochemical Gas Sensors Customers

10 CONCLUDING INSIGHTS

11 APPENDIX

11.1 Reasons for Doing This Study

11.2 Research Methodology

- 11.3 Research Process
- 11.4 Authors List of This Report
- 11.5 Data Source
 - 11.5.1 Secondary Sources
 - 11.5.2 Primary Sources
- 11.6 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Electrochemical Gas Sensors Industry Trends
- Table 2. Electrochemical Gas Sensors Industry Drivers
- Table 3. Electrochemical Gas Sensors Industry Opportunities and Challenges
- Table 4. Electrochemical Gas Sensors Industry Restraints
- Table 5. Global Electrochemical Gas Sensors Production Value by Manufacturers (US\$ Million) & (2019-2024)
- Table 6. Global Electrochemical Gas Sensors Production Value Market Share by Manufacturers (2019-2024)
- Table 7. Global Electrochemical Gas Sensors Production by Manufacturers (K Units) & (2019-2024)
- Table 8. Global Electrochemical Gas Sensors Production Market Share by Manufacturers
- Table 9. Global Electrochemical Gas Sensors Average Price (USD/Unit) of Manufacturers (2019-2024)
- Table 10. Global Electrochemical Gas Sensors Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- Table 11. Global Electrochemical Gas Sensors Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- Table 12. Global Electrochemical Gas Sensors Key Manufacturers Manufacturing Sites & Headquarters
- Table 13. Global Electrochemical Gas Sensors Manufacturers, Product Type & Application
- Table 14. Global Electrochemical Gas Sensors Manufacturers Commercialization Time
- Table 15. Global Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 16. Global Electrochemical Gas Sensors by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Production Value of 2023)
- Table 17. Major Manufacturers of Inflammable Gas Type
- Table 18. Major Manufacturers of Toxic Gas Type
- Table 19. Major Manufacturers of Other Gases Type
- Table 20. Global Electrochemical Gas Sensors Production by type 2019 VS 2023 VS 2030 (K Units)
- Table 21. Global Electrochemical Gas Sensors Production by type (2019-2024) & (K Units)
- Table 22. Global Electrochemical Gas Sensors Production by type (2025-2030) & (K Units)

Table 23. Global Electrochemical Gas Sensors Production Market Share by type (2019-2024)

Table 24. Global Electrochemical Gas Sensors Production Market Share by type (2025-2030)

Table 25. Global Electrochemical Gas Sensors Production Value by type 2019 VS 2023 VS 2030 (K Units)

Table 26. Global Electrochemical Gas Sensors Production Value by type (2019-2024) & (K Units)

Table 27. Global Electrochemical Gas Sensors Production Value by type (2025-2030) & (K Units)

Table 28. Global Electrochemical Gas Sensors Production Value Market Share by type (2019-2024)

Table 29. Global Electrochemical Gas Sensors Production Value Market Share by type (2025-2030)

Table 30. Major Manufacturers of Civil Gas Safety

Table 31. Major Manufacturers of Chemical & Oil

Table 32. Major Manufacturers of Mining

Table 33. Major Manufacturers of Environmental

Table 34. Major Manufacturers of Others

Table 35. Global Electrochemical Gas Sensors Production by application 2019 VS 2023 VS 2030 (K Units)

Table 36. Global Electrochemical Gas Sensors Production by application (2019-2024) & (K Units)

Table 37. Global Electrochemical Gas Sensors Production by application (2025-2030) & (K Units)

Table 38. Global Electrochemical Gas Sensors Production Market Share by application (2019-2024)

Table 39. Global Electrochemical Gas Sensors Production Market Share by application (2025-2030)

Table 40. Global Electrochemical Gas Sensors Production Value by application 2019 VS 2023 VS 2030 (K Units)

Table 41. Global Electrochemical Gas Sensors Production Value by application (2019-2024) & (K Units)

Table 42. Global Electrochemical Gas Sensors Production Value by application (2025-2030) & (K Units)

Table 43. Global Electrochemical Gas Sensors Production Value Market Share by application (2019-2024)

Table 44. Global Electrochemical Gas Sensors Production Value Market Share by application (2025-2030)

Table 45. City Technology Company Information

Table 46. City Technology Business Overview

Table 47. City Technology Electrochemical Gas Sensors Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 48. City Technology Electrochemical Gas Sensors Product Portfolio

Table 49. City Technology Recent Development

Table 50. Alphasense Company Information

Table 51. Alphasense Business Overview

Table 52. Alphasense Electrochemical Gas Sensors Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 53. Alphasense Electrochemical Gas Sensors Product Portfolio

Table 54. Alphasense Recent Development

Table 55. MEMBRAPOR Company Information

Table 56. MEMBRAPOR Business Overview

Table 57. MEMBRAPOR Electrochemical Gas Sensors Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 58. MEMBRAPOR Electrochemical Gas Sensors Product Portfolio

Table 59. MEMBRAPOR Recent Development

Table 60. SGX Sensortech Company Information

Table 61. SGX Sensortech Business Overview

Table 62. SGX Sensortech Electrochemical Gas Sensors Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 63. SGX Sensortech Electrochemical Gas Sensors Product Portfolio

Table 64. SGX Sensortech Recent Development

Table 65. Figaro Company Information

Table 66. Figaro Business Overview

Table 67. Figaro Electrochemical Gas Sensors Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 68. Figaro Electrochemical Gas Sensors Product Portfolio

Table 69. Figaro Recent Development

Table 70. Draeger Company Information

Table 71. Draeger Business Overview

Table 72. Draeger Electrochemical Gas Sensors Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 73. Draeger Electrochemical Gas Sensors Product Portfolio

Table 74. Draeger Recent Development

Table 75. Winsen Company Information

Table 76. Winsen Business Overview

Table 77. Winsen Electrochemical Gas Sensors Production (K Units), Value (US\$

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

Table 78. Winsen Electrochemical Gas Sensors Product Portfolio

Table 79. Winsen Recent Development

Table 80. Dart Company Information

Table 81. Dart Business Overview

Table 82. Dart Electrochemical Gas Sensors Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 83. Dart Electrochemical Gas Sensors Product Portfolio

Table 84. Dart Recent Development

Table 85. GE Company Information

Table 86. GE Business Overview

Table 87. GE Electrochemical Gas Sensors Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 88. GE Electrochemical Gas Sensors Product Portfolio

Table 89. GE Recent Development

Table 90. Emerson Company Information

Table 91. Emerson Business Overview

Table 92. Emerson Electrochemical Gas Sensors Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 93. Emerson Electrochemical Gas Sensors Product Portfolio

Table 94. Emerson Recent Development

Table 95. Global Electrochemical Gas Sensors Production by Region: 2019 VS 2023 VS 2030 (K Units)

Table 96. Global Electrochemical Gas Sensors Production by Region (2019-2024) & (K Units)

Table 97. Global Electrochemical Gas Sensors Production Market Share by Region (2019-2024)

Table 98. Global Electrochemical Gas Sensors Production Forecast by Region (2025-2030) & (K Units)

Table 99. Global Electrochemical Gas Sensors Production Market Share Forecast by Region (2025-2030)

Table 100. Global Electrochemical Gas Sensors Production Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)

Table 101. Global Electrochemical Gas Sensors Production Value by Region (2019-2024) & (US\$ Million)

Table 102. Global Electrochemical Gas Sensors Production Value Forecast by Region (2025-2030) & (US\$ Million)

Table 103. Global Electrochemical Gas Sensors Production Value Share Forecast by Region: (2025-2030) & (US\$ Million)

Table 104. Global Electrochemical Gas Sensors Market Average Price (USD/Unit) by Region (2019-2024)

Table 105. Global Electrochemical Gas Sensors Market Average Price (USD/Unit) by Region (2025-2030)

Table 106. Global Electrochemical Gas Sensors Consumption by Region: 2019 VS 2023 VS 2030 (K Units)

Table 107. Global Electrochemical Gas Sensors Consumption by Region (2019-2024) & (K Units)

Table 108. Global Electrochemical Gas Sensors Consumption Market Share by Region (2019-2024)

Table 109. Global Electrochemical Gas Sensors Consumption Forecasted by Region (2025-2030) & (K Units)

Table 110. Global Electrochemical Gas Sensors Consumption Forecasted Market Share by Region (2025-2030)

Table 111. North America Electrochemical Gas Sensors Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (K Units)

Table 112. North America Electrochemical Gas Sensors Consumption by Country (2019-2024) & (K Units)

Table 113. North America Electrochemical Gas Sensors Consumption by Country (2025-2030) & (K Units)

Table 114. Europe Electrochemical Gas Sensors Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (K Units)

Table 115. Europe Electrochemical Gas Sensors Consumption by Country (2019-2024) & (K Units)

Table 116. Europe Electrochemical Gas Sensors Consumption by Country (2025-2030) & (K Units)

Table 117. Asia Pacific Electrochemical Gas Sensors Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (K Units)

Table 118. Asia Pacific Electrochemical Gas Sensors Consumption by Country (2019-2024) & (K Units)

Table 119. Asia Pacific Electrochemical Gas Sensors Consumption by Country (2025-2030) & (K Units)

Table 120. LAMEA Electrochemical Gas Sensors Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (K Units)

Table 121. LAMEA Electrochemical Gas Sensors Consumption by Country (2019-2024) & (K Units)

Table 122. LAMEA Electrochemical Gas Sensors Consumption by Country (2025-2030) & (K Units)

Table 123. Key Raw Materials

- Table 124. Raw Materials Key Suppliers
- Table 125. Electrochemical Gas Sensors Distributors List
- Table 126. Electrochemical Gas Sensors Customers List
- Table 127. Research Programs/Design for This Report
- Table 128. Authors List of This Report
- Table 129. Secondary Sources
- Table 130. Primary Sources

List Of Figures

LIST OF FIGURES

- Figure 1. Electrochemical Gas Sensors Product Picture
- Figure 2. Global Electrochemical Gas Sensors Production Value (US\$ Million), 2019 VS 2023 VS 2030
- Figure 3. Global Electrochemical Gas Sensors Production Value (2019-2030) & (US\$ Million)
- Figure 4. Global Electrochemical Gas Sensors Production Capacity (2019-2030) & (K Units)
- Figure 5. Global Electrochemical Gas Sensors Production (2019-2030) & (K Units)
- Figure 6. Global Electrochemical Gas Sensors Average Price (USD/Unit) & (2019-2030)
- Figure 7. Global Top 5 and 10 Electrochemical Gas Sensors Players Market Share by Production Value in 2023
- Figure 8. Manufacturers Type (Tier 1, Tier 2, and Tier 3): 2019 VS 2023
- Figure 9. Inflammable Gas Type Picture
- Figure 10. Toxic Gas Type Picture
- Figure 11. Other Gases Type Picture
- Figure 12. Global Electrochemical Gas Sensors Production by Type (2019 VS 2023 VS 2030) & (K Units)
- Figure 13. Global Electrochemical Gas Sensors Production Market Share 2019 VS 2023 VS 2030
- Figure 14. Global Electrochemical Gas Sensors Production Market Share by Type (2019-2030)
- Figure 15. Global Electrochemical Gas Sensors Production Value by Type (2019 VS 2023 VS 2030) & (K Units)
- Figure 16. Global Electrochemical Gas Sensors Production Value Share 2019 VS 2023 VS 2030
- Figure 17. Global Electrochemical Gas Sensors Production Value Share by Type (2019-2030)
- Figure 18. Civil Gas Safety Picture
- Figure 19. Chemical & Oil Picture
- Figure 20. Mining Picture
- Figure 21. Environmental Picture
- Figure 22. Others Picture
- Figure 23. Global Electrochemical Gas Sensors Production by Application (2019 VS 2023 VS 2030) & (K Units)
- Figure 24. Global Electrochemical Gas Sensors Production Market Share 2019 VS

2023 VS 2030

Figure 25. Global Electrochemical Gas Sensors Production Market Share by Application (2019-2030)

Figure 26. Global Electrochemical Gas Sensors Production Value by Application (2019 VS 2023 VS 2030) & (K Units)

Figure 27. Global Electrochemical Gas Sensors Production Value Share 2019 VS 2023 VS 2030

Figure 28. Global Electrochemical Gas Sensors Production Value Share by Application (2019-2030)

Figure 29. Global Electrochemical Gas Sensors Production by Region: 2019 VS 2023 VS 2030 (K Units)

Figure 30. Global Electrochemical Gas Sensors Production Market Share by Region: 2019 VS 2023 VS 2030

Figure 31. Global Electrochemical Gas Sensors Production Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)

Figure 32. Global Electrochemical Gas Sensors Production Value Share by Region: 2019 VS 2023 VS 2030

Figure 33. North America Electrochemical Gas Sensors Production Value (2019-2030) & (US\$ Million)

Figure 34. Europe Electrochemical Gas Sensors Production Value (2019-2030) & (US\$ Million)

Figure 35. Asia-Pacific Electrochemical Gas Sensors Production Value (2019-2030) & (US\$ Million)

Figure 36. Latin America Electrochemical Gas Sensors Production Value (2019-2030) & (US\$ Million)

Figure 37. Middle East & Africa Electrochemical Gas Sensors Production Value (2019-2030) & (US\$ Million)

Figure 38. North America Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 39. North America Electrochemical Gas Sensors Consumption Market Share by Country (2019-2030)

Figure 40. U.S. Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 41. Canada Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 42. Europe Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 43. Europe Electrochemical Gas Sensors Consumption Market Share by Country (2019-2030)

Figure 44. Germany Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 45. France Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 46. U.K. Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 47. Italy Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 48. Netherlands Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 49. Asia Pacific Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 50. Asia Pacific Electrochemical Gas Sensors Consumption Market Share by Country (2019-2030)

Figure 51. China Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 52. Japan Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 53. South Korea Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 54. Southeast Asia Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 55. India Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 56. Australia Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 57. LAMEA Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 58. LAMEA Electrochemical Gas Sensors Consumption Market Share by Country (2019-2030)

Figure 59. Mexico Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 60. Brazil Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 61. Turkey Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 62. GCC Countries Electrochemical Gas Sensors Consumption and Growth Rate (2019-2030) & (K Units)

Figure 63. Electrochemical Gas Sensors Value Chain

Figure 64. Manufacturing Cost Structure

Figure 65. Electrochemical Gas Sensors Production Mode & Process

Figure 66. Direct Comparison with Distribution Share

Figure 67. Distributors Profiles

Figure 68. Years Considered

Figure 69. Research Process

Figure 70. Key Executives Interviewed

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