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Global Battery Off-Gas Sensors Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G59AAD11D795EN.html
Date: September 2026
Pages: 129
Price: US$ 4,480.00 (Single User License)
ID: G59AAD11D795EN

Abstracts

The global Battery Off-Gas Sensors market size is expected to reach $ 846 million by 2032, rising at a market growth of 16.4% CAGR during the forecast period (2026-2032).

In 2025, global Battery Off-Gas Sensors production reached approximately 4.75 million units, with an average global market price of around USD 60 per unit.

The gross profit margin of major companies in the industry was approximately 32%–50%.

In 2025, global production capacity of Battery Off-Gas Sensors was approximately 6.1 million units.

Battery Off-Gas Sensors are safety monitoring devices designed to detect characteristic gases released by batteries during abnormal heating, electrolyte decomposition, cell failure, or the early stages of thermal runaway. Products use gas sensing technologies to identify volatile compounds and combustible gases before severe temperature escalation occurs. They are mainly deployed in battery energy storage systems, electric vehicles, battery cabinets, charging infrastructure, and battery testing facilities.

The industrial chain of Battery Off-Gas Sensors includes upstream sensing materials, gas-sensitive elements, semiconductor chips, optical components, housings, and signal-processing electronics; midstream covers sensor design, element manufacturing, calibration, assembly, testing, and system integration; downstream applications mainly include energy storage systems, electric vehicles, battery cabinets, charging facilities, battery manufacturing, and safety monitoring systems.

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Report Scope

This report studies the global Battery Off-Gas Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery Off-Gas Sensors and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Battery Off-Gas Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Battery Off-Gas Sensors total production and demand, 2021-2032, (K Units)

Global Battery Off-Gas Sensors total production value, 2021-2032, (USD Million)

Global Battery Off-Gas Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Battery Off-Gas Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Battery Off-Gas Sensors domestic production, consumption, key domestic manufacturers and share

Global Battery Off-Gas Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Battery Off-Gas Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Battery Off-Gas Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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This report profiles key players in the global Battery Off-Gas Sensors market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Honeywell International Inc., Sensirion AG, FIGARO Engineering Inc., Metis Engineering Ltd., Securiton AG, Kentec Electronics Ltd., Bosch Sensortec GmbH, SGX Sensortech Limited, Amphenol Corporation, Cubic Sensor and Instrument Co., Ltd., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Battery Off-Gas Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Battery Off-Gas Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Market Segmentation

Global Battery Off-Gas Sensors Market, Segmentation by Type:

Metal Oxide Semiconductor Sensors

Electrochemical Sensors

Optical and Infrared Sensors

Global Battery Off-Gas Sensors Market, Segmentation by Target Gas:

Hydrogen and Carbon Monoxide Sensors

Volatile Organic Compound Sensors

Multi-gas Sensors

Global Battery Off-Gas Sensors Market, Segmentation by Gas Detection Range:

Low-range(?100 ppm)

Medium-range(>100–1,000 ppm)

High-range(>1,000 ppm)

Global Battery Off-Gas Sensors Market, Segmentation by Application:

Thermal Runaway Early Warning

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Battery Leakage and Venting Detection

Battery Condition and Safety Monitoring

Other

Companies Profiled:

Honeywell International Inc.

Sensirion AG

FIGARO Engineering Inc.

Metis Engineering Ltd.

Securiton AG

Kentec Electronics Ltd.

Bosch Sensortec GmbH

SGX Sensortech Limited

Amphenol Corporation

Cubic Sensor and Instrument Co., Ltd.

Hanwei Electronics Group Corporation

Zhengzhou Winsen Electronics Technology Co., Ltd.

Shenzhen MemsFrontier Electronics Co., Ltd.

Guangzhou Aosong Electronic Co., Ltd.

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Key Questions Answered

1. How big is the global Battery Off-Gas Sensors market?
2. What is the demand of the global Battery Off-Gas Sensors market?
3. What is the year over year growth of the global Battery Off-Gas Sensors market?
4. What is the total value of the global Battery Off-Gas Sensors market?
5. Who are the Major Players in the global Battery Off-Gas Sensors market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 Battery Off-Gas Sensors Introduction
1.2 World Battery Off-Gas Sensors Supply & Forecast
  1.2.1 World Battery Off-Gas Sensors Production Value (2021 & 2025 & 2032)
  1.2.2 World Battery Off-Gas Sensors Production (2021-2032)
  1.2.3 World Battery Off-Gas Sensors Pricing Trends (2021-2032)
1.3 World Battery Off-Gas Sensors Production by Region (Based on Production Site)
  1.3.1 World Battery Off-Gas Sensors Production Value by Region (2021-2032)
  1.3.2 World Battery Off-Gas Sensors Production by Region (2021-2032)
  1.3.3 World Battery Off-Gas Sensors Average Price by Region (2021-2032)
  1.3.4 North America Battery Off-Gas Sensors Production (2021-2032)
  1.3.5 Europe Battery Off-Gas Sensors Production (2021-2032)
  1.3.6 China Battery Off-Gas Sensors Production (2021-2032)
  1.3.7 Japan Battery Off-Gas Sensors Production (2021-2032)
  1.3.8 South Korea Battery Off-Gas Sensors Production (2021-2032)
  1.3.9 Southeast Asia Battery Off-Gas Sensors Production (2021-2032)
  1.3.10 China Taiwan Battery Off-Gas Sensors Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Battery Off-Gas Sensors Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Battery Off-Gas Sensors Major Market Trends

2 DEMAND SUMMARY

2.1 World Battery Off-Gas Sensors Demand (2021-2032)
2.2 World Battery Off-Gas Sensors Consumption by Region
  2.2.1 World Battery Off-Gas Sensors Consumption by Region (2021-2026)
  2.2.2 World Battery Off-Gas Sensors Consumption Forecast by Region (2027-2032)
2.3 United States Battery Off-Gas Sensors Consumption (2021-2032)
2.4 China Battery Off-Gas Sensors Consumption (2021-2032)
2.5 Europe Battery Off-Gas Sensors Consumption (2021-2032)
2.6 Japan Battery Off-Gas Sensors Consumption (2021-2032)
2.7 South Korea Battery Off-Gas Sensors Consumption (2021-2032)
2.8 ASEAN Battery Off-Gas Sensors Consumption (2021-2032)
2.9 India Battery Off-Gas Sensors Consumption (2021-2032)

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3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Battery Off-Gas Sensors Production Value by Manufacturer (2021-2026)
3.2 World Battery Off-Gas Sensors Production by Manufacturer (2021-2026)
3.3 World Battery Off-Gas Sensors Average Price by Manufacturer (2021-2026)
3.4 Battery Off-Gas Sensors Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global Battery Off-Gas Sensors Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for Battery Off-Gas Sensors in 2025
  3.5.3 Global Concentration Ratios (CR8) for Battery Off-Gas Sensors in 2025
3.6 Battery Off-Gas Sensors Market: Overall Company Footprint Analysis
  3.6.1 Battery Off-Gas Sensors Market: Region Footprint
  3.6.2 Battery Off-Gas Sensors Market: Company Product Type Footprint
  3.6.3 Battery Off-Gas Sensors Market: Company Product Application Footprint
3.7 Competitive Environment
  3.7.1 Historical Structure of the Industry
  3.7.2 Barriers of Market Entry
  3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Battery Off-Gas Sensors Production Value Comparison
  4.1.1 United States VS China: Battery Off-Gas Sensors Production Value Comparison (2021 & 2025 & 2032)
  4.1.2 United States VS China: Battery Off-Gas Sensors Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Battery Off-Gas Sensors Production Comparison
  4.2.1 United States VS China: Battery Off-Gas Sensors Production Comparison (2021 & 2025 & 2032)
  4.2.2 United States VS China: Battery Off-Gas Sensors Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Battery Off-Gas Sensors Consumption Comparison
  4.3.1 United States VS China: Battery Off-Gas Sensors Consumption Comparison (2021 & 2025 & 2032)
  4.3.2 United States VS China: Battery Off-Gas Sensors Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based Battery Off-Gas Sensors Manufacturers and Market Share,

+357 96 030922
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2021-2026
4.4.1 United States Based Battery Off-Gas Sensors Manufacturers, Headquarters and Production Site (States, Country)
4.4.2 United States Based Manufacturers Battery Off-Gas Sensors Production Value (2021-2026)
4.4.3 United States Based Manufacturers Battery Off-Gas Sensors Production (2021-2026)
4.5 China Based Battery Off-Gas Sensors Manufacturers and Market Share
4.5.1 China Based Battery Off-Gas Sensors Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Battery Off-Gas Sensors Production Value (2021-2026)
4.5.3 China Based Manufacturers Battery Off-Gas Sensors Production (2021-2026)
4.6 Rest of World Based Battery Off-Gas Sensors Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Battery Off-Gas Sensors Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Battery Off-Gas Sensors Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Battery Off-Gas Sensors Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Battery Off-Gas Sensors Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Metal Oxide Semiconductor Sensors
5.2.2 Electrochemical Sensors
5.2.3 Optical and Infrared Sensors
5.3 Market Segment by Type
5.3.1 World Battery Off-Gas Sensors Production by Type (2021-2032)
5.3.2 World Battery Off-Gas Sensors Production Value by Type (2021-2032)
5.3.3 World Battery Off-Gas Sensors Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TARGET GAS

6.1 World Battery Off-Gas Sensors Market Size Overview by Target Gas: 2021 VS 2025 VS 2032

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6.2 Segment Introduction by Target Gas
6.2.1 Hydrogen and Carbon Monoxide Sensors
6.2.2 Volatile Organic Compound Sensors
6.2.3 Multi-gas Sensors
6.3 Market Segment by Target Gas
6.3.1 World Battery Off-Gas Sensors Production by Target Gas (2021-2032)
6.3.2 World Battery Off-Gas Sensors Production Value by Target Gas (2021-2032)
6.3.3 World Battery Off-Gas Sensors Average Price by Target Gas (2021-2032)

7 MARKET ANALYSIS BY GAS DETECTION RANGE

7.1 World Battery Off-Gas Sensors Market Size Overview by Gas Detection Range: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Gas Detection Range
7.2.1 Low-range(?100 ppm)
7.2.2 Medium-range(>100–1,000 ppm)
7.2.3 High-range(>1,000 ppm)
7.3 Market Segment by Gas Detection Range
7.3.1 World Battery Off-Gas Sensors Production by Gas Detection Range (2021-2032)
7.3.2 World Battery Off-Gas Sensors Production Value by Gas Detection Range (2021-2032)
7.3.3 World Battery Off-Gas Sensors Average Price by Gas Detection Range (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Battery Off-Gas Sensors Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 Thermal Runaway Early Warning
8.2.2 Battery Leakage and Venting Detection
8.2.3 Battery Condition and Safety Monitoring
8.2.4 Other
8.3 Market Segment by Application
8.3.1 World Battery Off-Gas Sensors Production by Application (2021-2032)
8.3.2 World Battery Off-Gas Sensors Production Value by Application (2021-2032)
8.3.3 World Battery Off-Gas Sensors Average Price by Application (2021-2032)

9 COMPANY PROFILES

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9.1 Honeywell International Inc.
9.1.1 Honeywell International Inc. Details
9.1.2 Honeywell International Inc. Major Business
9.1.3 Honeywell International Inc. Battery Off-Gas Sensors Product and Services
9.1.4 Honeywell International Inc. Battery Off-Gas Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 Honeywell International Inc. Recent Developments/Updates
9.1.6 Honeywell International Inc. Competitive Strengths & Weaknesses
9.2 Sensirion AG
9.2.1 Sensirion AG Details
9.2.2 Sensirion AG Major Business
9.2.3 Sensirion AG Battery Off-Gas Sensors Product and Services
9.2.4 Sensirion AG Battery Off-Gas Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 Sensirion AG Recent Developments/Updates
9.2.6 Sensirion AG Competitive Strengths & Weaknesses
9.3 FIGARO Engineering Inc.
9.3.1 FIGARO Engineering Inc. Details
9.3.2 FIGARO Engineering Inc. Major Business
9.3.3 FIGARO Engineering Inc. Battery Off-Gas Sensors Product and Services
9.3.4 FIGARO Engineering Inc. Battery Off-Gas Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 FIGARO Engineering Inc. Recent Developments/Updates
9.3.6 FIGARO Engineering Inc. Competitive Strengths & Weaknesses
9.4 Metis Engineering Ltd.
9.4.1 Metis Engineering Ltd. Details
9.4.2 Metis Engineering Ltd. Major Business
9.4.3 Metis Engineering Ltd. Battery Off-Gas Sensors Product and Services
9.4.4 Metis Engineering Ltd. Battery Off-Gas Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 Metis Engineering Ltd. Recent Developments/Updates
9.4.6 Metis Engineering Ltd. Competitive Strengths & Weaknesses
9.5 Securiton AG
9.5.1 Securiton AG Details
9.5.2 Securiton AG Major Business
9.5.3 Securiton AG Battery Off-Gas Sensors Product and Services
9.5.4 Securiton AG Battery Off-Gas Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

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info@marketpublishers.com

9.5.5 Securiton AG Recent Developments/Updates
9.5.6 Securiton AG Competitive Strengths & Weaknesses
9.6 Kentec Electronics Ltd.
9.6.1 Kentec Electronics Ltd. Details
9.6.2 Kentec Electronics Ltd. Major Business
9.6.3 Kentec Electronics Ltd. Battery Off-Gas Sensors Product and Services
9.6.4 Kentec Electronics Ltd. Battery Off-Gas Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.6.5 Kentec Electronics Ltd. Recent Developments/Updates
9.6.6 Kentec Electronics Ltd. Competitive Strengths & Weaknesses
9.7 Bosch Sensortec GmbH
9.7.1 Bosch Sensortec GmbH Details
9.7.2 Bosch Sensortec GmbH Major Business
9.7.3 Bosch Sensortec GmbH Battery Off-Gas Sensors Product and Services
9.7.4 Bosch Sensortec GmbH Battery Off-Gas Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.7.5 Bosch Sensortec GmbH Recent Developments/Updates
9.7.6 Bosch Sensortec GmbH Competitive Strengths & Weaknesses
9.8 SGX Sensortech Limited
9.8.1 SGX Sensortech Limited Details
9.8.2 SGX Sensortech Limited Major Business
9.8.3 SGX Sensortech Limited Battery Off-Gas Sensors Product and Services
9.8.4 SGX Sensortech Limited Battery Off-Gas Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 SGX Sensortech Limited Recent Developments/Updates
9.8.6 SGX Sensortech Limited Competitive Strengths & Weaknesses
9.9 Amphenol Corporation
9.9.1 Amphenol Corporation Details
9.9.2 Amphenol Corporation Major Business
9.9.3 Amphenol Corporation Battery Off-Gas Sensors Product and Services
9.9.4 Amphenol Corporation Battery Off-Gas Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.9.5 Amphenol Corporation Recent Developments/Updates
9.9.6 Amphenol Corporation Competitive Strengths & Weaknesses
9.10 Cubic Sensor and Instrument Co., Ltd.
9.10.1 Cubic Sensor and Instrument Co., Ltd. Details
9.10.2 Cubic Sensor and Instrument Co., Ltd. Major Business
9.10.3 Cubic Sensor and Instrument Co., Ltd. Battery Off-Gas Sensors Product and Services

+357 96 030922
info@marketpublishers.com

9.10.4 Cubic Sensor and Instrument Co., Ltd. Battery Off-Gas Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.10.5 Cubic Sensor and Instrument Co., Ltd. Recent Developments/Updates
9.10.6 Cubic Sensor and Instrument Co., Ltd. Competitive Strengths & Weaknesses
9.11 Hanwei Electronics Group Corporation
9.11.1 Hanwei Electronics Group Corporation Details
9.11.2 Hanwei Electronics Group Corporation Major Business
9.11.3 Hanwei Electronics Group Corporation Battery Off-Gas Sensors Product and Services
9.11.4 Hanwei Electronics Group Corporation Battery Off-Gas Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.11.5 Hanwei Electronics Group Corporation Recent Developments/Updates
9.11.6 Hanwei Electronics Group Corporation Competitive Strengths & Weaknesses
9.12 Zhengzhou Winsen Electronics Technology Co., Ltd.
9.12.1 Zhengzhou Winsen Electronics Technology Co., Ltd. Details
9.12.2 Zhengzhou Winsen Electronics Technology Co., Ltd. Major Business
9.12.3 Zhengzhou Winsen Electronics Technology Co., Ltd. Battery Off-Gas Sensors Product and Services
9.12.4 Zhengzhou Winsen Electronics Technology Co., Ltd. Battery Off-Gas Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.12.5 Zhengzhou Winsen Electronics Technology Co., Ltd. Recent Developments/Updates
9.12.6 Zhengzhou Winsen Electronics Technology Co., Ltd. Competitive Strengths & Weaknesses
9.13 Shenzhen MemsFrontier Electronics Co., Ltd.
9.13.1 Shenzhen MemsFrontier Electronics Co., Ltd. Details
9.13.2 Shenzhen MemsFrontier Electronics Co., Ltd. Major Business
9.13.3 Shenzhen MemsFrontier Electronics Co., Ltd. Battery Off-Gas Sensors Product and Services
9.13.4 Shenzhen MemsFrontier Electronics Co., Ltd. Battery Off-Gas Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.13.5 Shenzhen MemsFrontier Electronics Co., Ltd. Recent Developments/Updates
9.13.6 Shenzhen MemsFrontier Electronics Co., Ltd. Competitive Strengths & Weaknesses
9.14 Guangzhou Aosong Electronic Co., Ltd.
9.14.1 Guangzhou Aosong Electronic Co., Ltd. Details
9.14.2 Guangzhou Aosong Electronic Co., Ltd. Major Business
9.14.3 Guangzhou Aosong Electronic Co., Ltd. Battery Off-Gas Sensors Product and Services

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9.14.4 Guangzhou Aosong Electronic Co., Ltd. Battery Off-Gas Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.14.5 Guangzhou Aosong Electronic Co., Ltd. Recent Developments/Updates
9.14.6 Guangzhou Aosong Electronic Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Battery Off-Gas Sensors Industry Chain
10.2 Battery Off-Gas Sensors Upstream Analysis
10.2.1 Battery Off-Gas Sensors Core Raw Materials
10.2.2 Main Manufacturers of Battery Off-Gas Sensors Core Raw Materials
10.3 Midstream Analysis
10.4 Downstream Analysis
10.5 Battery Off-Gas Sensors Production Mode
10.6 Battery Off-Gas Sensors Procurement Model
10.7 Battery Off-Gas Sensors Industry Sales Model and Sales Channels
10.7.1 Battery Off-Gas Sensors Sales Model
10.7.2 Battery Off-Gas Sensors Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. World Battery Off-Gas Sensors Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Battery Off-Gas Sensors Production Value by Region (2021-2026) & (USD Million)
Table 3. World Battery Off-Gas Sensors Production Value by Region (2027-2032) & (USD Million)
Table 4. World Battery Off-Gas Sensors Production Value Market Share by Region (2021-2026)
Table 5. World Battery Off-Gas Sensors Production Value Market Share by Region (2027-2032)
Table 6. World Battery Off-Gas Sensors Production by Region (2021-2026) & (K Units)
Table 7. World Battery Off-Gas Sensors Production by Region (2027-2032) & (K Units)
Table 8. World Battery Off-Gas Sensors Production Market Share by Region (2021-2026)
Table 9. World Battery Off-Gas Sensors Production Market Share by Region (2027-2032)
Table 10. World Battery Off-Gas Sensors Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World Battery Off-Gas Sensors Average Price by Region (2027-2032) & (US$/Unit)
Table 12. Battery Off-Gas Sensors Major Market Trends
Table 13. World Battery Off-Gas Sensors Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
Table 14. World Battery Off-Gas Sensors Consumption by Region (2021-2026) & (K Units)
Table 15. World Battery Off-Gas Sensors Consumption Forecast by Region (2027-2032) & (K Units)
Table 16. World Battery Off-Gas Sensors Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Battery Off-Gas Sensors Producers in 2025
Table 18. World Battery Off-Gas Sensors Production by Manufacturer (2021-2026) & (K Units)
Table 19. Production Market Share of Key Battery Off-Gas Sensors Producers in 2025
Table 20. World Battery Off-Gas Sensors Average Price by Manufacturer (2021-2026) &

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(US$/Unit)
Table 21. Global Battery Off-Gas Sensors Company Evaluation Quadrant
Table 22. World Battery Off-Gas Sensors Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Battery Off-Gas Sensors Production Site of Key Manufacturer
Table 24. Battery Off-Gas Sensors Market: Company Product Type Footprint
Table 25. Battery Off-Gas Sensors Market: Company Product Application Footprint
Table 26. Battery Off-Gas Sensors Competitive Factors
Table 27. Battery Off-Gas Sensors New Entrant and Capacity Expansion Plans
Table 28. Battery Off-Gas Sensors Mergers & Acquisitions Activity
Table 29. United States VS China Battery Off-Gas Sensors Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Battery Off-Gas Sensors Production Comparison, (2021 & 2025 & 2032) & (K Units)
Table 31. United States VS China Battery Off-Gas Sensors Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
Table 32. United States Based Battery Off-Gas Sensors Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Battery Off-Gas Sensors Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Battery Off-Gas Sensors Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Battery Off-Gas Sensors Production (2021-2026) & (K Units)
Table 36. United States Based Manufacturers Battery Off-Gas Sensors Production Market Share (2021-2026)
Table 37. China Based Battery Off-Gas Sensors Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Battery Off-Gas Sensors Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Battery Off-Gas Sensors Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Battery Off-Gas Sensors Production, (2021-2026) & (K Units)
Table 41. China Based Manufacturers Battery Off-Gas Sensors Production Market Share (2021-2026)
Table 42. Rest of World Based Battery Off-Gas Sensors Manufacturers, Headquarters and Production Site (State, Country)

+357 96 030922
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Table 43. Rest of World Based Manufacturers Battery Off-Gas Sensors Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Battery Off-Gas Sensors Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Battery Off-Gas Sensors Production, (2021-2026) & (K Units)
Table 46. Rest of World Based Manufacturers Battery Off-Gas Sensors Production Market Share (2021-2026)
Table 47. World Battery Off-Gas Sensors Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Battery Off-Gas Sensors Production by Type (2021-2026) & (K Units)
Table 49. World Battery Off-Gas Sensors Production by Type (2027-2032) & (K Units)
Table 50. World Battery Off-Gas Sensors Production Value by Type (2021-2026) & (USD Million)
Table 51. World Battery Off-Gas Sensors Production Value by Type (2027-2032) & (USD Million)
Table 52. World Battery Off-Gas Sensors Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World Battery Off-Gas Sensors Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World Battery Off-Gas Sensors Production Value by Target Gas, (USD Million), 2021 & 2025 & 2032
Table 55. World Battery Off-Gas Sensors Production by Target Gas (2021-2026) & (K Units)
Table 56. World Battery Off-Gas Sensors Production by Target Gas (2027-2032) & (K Units)
Table 57. World Battery Off-Gas Sensors Production Value by Target Gas (2021-2026) & (USD Million)
Table 58. World Battery Off-Gas Sensors Production Value by Target Gas (2027-2032) & (USD Million)
Table 59. World Battery Off-Gas Sensors Average Price by Target Gas (2021-2026) & (US$/Unit)
Table 60. World Battery Off-Gas Sensors Average Price by Target Gas (2027-2032) & (US$/Unit)
Table 61. World Battery Off-Gas Sensors Production Value by Gas Detection Range, (USD Million), 2021 & 2025 & 2032
Table 62. World Battery Off-Gas Sensors Production by Gas Detection Range (2021-2026) & (K Units)
Table 63. World Battery Off-Gas Sensors Production by Gas Detection Range

+357 96 030922
info@marketpublishers.com

(2027-2032) & (K Units)
Table 64. World Battery Off-Gas Sensors Production Value by Gas Detection Range (2021-2026) & (USD Million)
Table 65. World Battery Off-Gas Sensors Production Value by Gas Detection Range (2027-2032) & (USD Million)
Table 66. World Battery Off-Gas Sensors Average Price by Gas Detection Range (2021-2026) & (US$/Unit)
Table 67. World Battery Off-Gas Sensors Average Price by Gas Detection Range (2027-2032) & (US$/Unit)
Table 68. World Battery Off-Gas Sensors Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Battery Off-Gas Sensors Production by Application (2021-2026) & (K Units)
Table 70. World Battery Off-Gas Sensors Production by Application (2027-2032) & (K Units)
Table 71. World Battery Off-Gas Sensors Production Value by Application (2021-2026) & (USD Million)
Table 72. World Battery Off-Gas Sensors Production Value by Application (2027-2032) & (USD Million)
Table 73. World Battery Off-Gas Sensors Average Price by Application (2021-2026) & (US$/Unit)
Table 74. World Battery Off-Gas Sensors Average Price by Application (2027-2032) & (US$/Unit)
Table 75. Honeywell International Inc. Basic Information, Manufacturing Base and Competitors
Table 76. Honeywell International Inc. Major Business
Table 77. Honeywell International Inc. Battery Off-Gas Sensors Product and Services
Table 78. Honeywell International Inc. Battery Off-Gas Sensors Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Honeywell International Inc. Recent Developments/Updates
Table 80. Honeywell International Inc. Competitive Strengths & Weaknesses
Table 81. Sensirion AG Basic Information, Manufacturing Base and Competitors
Table 82. Sensirion AG Major Business
Table 83. Sensirion AG Battery Off-Gas Sensors Product and Services
Table 84. Sensirion AG Battery Off-Gas Sensors Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Sensirion AG Recent Developments/Updates
Table 86. Sensirion AG Competitive Strengths & Weaknesses

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Table 87. FIGARO Engineering Inc. Basic Information, Manufacturing Base and Competitors
Table 88. FIGARO Engineering Inc. Major Business
Table 89. FIGARO Engineering Inc. Battery Off-Gas Sensors Product and Services
Table 90. FIGARO Engineering Inc. Battery Off-Gas Sensors Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. FIGARO Engineering Inc. Recent Developments/Updates
Table 92. FIGARO Engineering Inc. Competitive Strengths & Weaknesses
Table 93. Metis Engineering Ltd. Basic Information, Manufacturing Base and Competitors
Table 94. Metis Engineering Ltd. Major Business
Table 95. Metis Engineering Ltd. Battery Off-Gas Sensors Product and Services
Table 96. Metis Engineering Ltd. Battery Off-Gas Sensors Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Metis Engineering Ltd. Recent Developments/Updates
Table 98. Metis Engineering Ltd. Competitive Strengths & Weaknesses
Table 99. Securiton AG Basic Information, Manufacturing Base and Competitors
Table 100. Securiton AG Major Business
Table 101. Securiton AG Battery Off-Gas Sensors Product and Services
Table 102. Securiton AG Battery Off-Gas Sensors Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Securiton AG Recent Developments/Updates
Table 104. Securiton AG Competitive Strengths & Weaknesses
Table 105. Kentec Electronics Ltd. Basic Information, Manufacturing Base and Competitors
Table 106. Kentec Electronics Ltd. Major Business
Table 107. Kentec Electronics Ltd. Battery Off-Gas Sensors Product and Services
Table 108. Kentec Electronics Ltd. Battery Off-Gas Sensors Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Kentec Electronics Ltd. Recent Developments/Updates
Table 110. Kentec Electronics Ltd. Competitive Strengths & Weaknesses
Table 111. Bosch Sensortec GmbH Basic Information, Manufacturing Base and Competitors
Table 112. Bosch Sensortec GmbH Major Business
Table 113. Bosch Sensortec GmbH Battery Off-Gas Sensors Product and Services

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Table 114. Bosch Sensortec GmbH Battery Off-Gas Sensors Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Bosch Sensortec GmbH Recent Developments/Updates
Table 116. Bosch Sensortec GmbH Competitive Strengths & Weaknesses
Table 117. SGX Sensortech Limited Basic Information, Manufacturing Base and Competitors
Table 118. SGX Sensortech Limited Major Business
Table 119. SGX Sensortech Limited Battery Off-Gas Sensors Product and Services
Table 120. SGX Sensortech Limited Battery Off-Gas Sensors Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. SGX Sensortech Limited Recent Developments/Updates
Table 122. SGX Sensortech Limited Competitive Strengths & Weaknesses
Table 123. Amphenol Corporation Basic Information, Manufacturing Base and Competitors
Table 124. Amphenol Corporation Major Business
Table 125. Amphenol Corporation Battery Off-Gas Sensors Product and Services
Table 126. Amphenol Corporation Battery Off-Gas Sensors Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Amphenol Corporation Recent Developments/Updates
Table 128. Amphenol Corporation Competitive Strengths & Weaknesses
Table 129. Cubic Sensor and Instrument Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 130. Cubic Sensor and Instrument Co., Ltd. Major Business
Table 131. Cubic Sensor and Instrument Co., Ltd. Battery Off-Gas Sensors Product and Services
Table 132. Cubic Sensor and Instrument Co., Ltd. Battery Off-Gas Sensors Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Cubic Sensor and Instrument Co., Ltd. Recent Developments/Updates
Table 134. Cubic Sensor and Instrument Co., Ltd. Competitive Strengths & Weaknesses
Table 135. Hanwei Electronics Group Corporation Basic Information, Manufacturing Base and Competitors
Table 136. Hanwei Electronics Group Corporation Major Business
Table 137. Hanwei Electronics Group Corporation Battery Off-Gas Sensors Product and Services

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Table 138. Hanwei Electronics Group Corporation Battery Off-Gas Sensors Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Hanwei Electronics Group Corporation Recent Developments/Updates
Table 140. Hanwei Electronics Group Corporation Competitive Strengths & Weaknesses
Table 141. Zhengzhou Winsen Electronics Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 142. Zhengzhou Winsen Electronics Technology Co., Ltd. Major Business
Table 143. Zhengzhou Winsen Electronics Technology Co., Ltd. Battery Off-Gas Sensors Product and Services
Table 144. Zhengzhou Winsen Electronics Technology Co., Ltd. Battery Off-Gas Sensors Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Zhengzhou Winsen Electronics Technology Co., Ltd. Recent Developments/Updates
Table 146. Zhengzhou Winsen Electronics Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 147. Shenzhen MemsFrontier Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 148. Shenzhen MemsFrontier Electronics Co., Ltd. Major Business
Table 149. Shenzhen MemsFrontier Electronics Co., Ltd. Battery Off-Gas Sensors Product and Services
Table 150. Shenzhen MemsFrontier Electronics Co., Ltd. Battery Off-Gas Sensors Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Shenzhen MemsFrontier Electronics Co., Ltd. Recent Developments/Updates
Table 152. Shenzhen MemsFrontier Electronics Co., Ltd. Competitive Strengths & Weaknesses
Table 153. Guangzhou Aosong Electronic Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 154. Guangzhou Aosong Electronic Co., Ltd. Major Business
Table 155. Guangzhou Aosong Electronic Co., Ltd. Battery Off-Gas Sensors Product and Services
Table 156. Guangzhou Aosong Electronic Co., Ltd. Battery Off-Gas Sensors Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Guangzhou Aosong Electronic Co., Ltd. Recent Developments/Updates

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Table 158. Guangzhou Aosong Electronic Co., Ltd. Competitive Strengths & Weaknesses
Table 159. Global Key Players of Battery Off-Gas Sensors Upstream (Raw Materials)
Table 160. Global Battery Off-Gas Sensors Typical Customers
Table 161. Battery Off-Gas Sensors Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. Battery Off-Gas Sensors Picture
Figure 2. World Battery Off-Gas Sensors Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Battery Off-Gas Sensors Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Battery Off-Gas Sensors Production (2021-2032) & (K Units)
Figure 5. World Battery Off-Gas Sensors Average Price (2021-2032) & (US$/Unit)
Figure 6. World Battery Off-Gas Sensors Production Value Market Share by Region (2021-2032)
Figure 7. World Battery Off-Gas Sensors Production Market Share by Region (2021-2032)
Figure 8. North America Battery Off-Gas Sensors Production (2021-2032) & (K Units)
Figure 9. Europe Battery Off-Gas Sensors Production (2021-2032) & (K Units)
Figure 10. China Battery Off-Gas Sensors Production (2021-2032) & (K Units)
Figure 11. Japan Battery Off-Gas Sensors Production (2021-2032) & (K Units)
Figure 12. South Korea Battery Off-Gas Sensors Production (2021-2032) & (K Units)
Figure 13. Southeast Asia Battery Off-Gas Sensors Production (2021-2032) & (K Units)
Figure 14. China Taiwan Battery Off-Gas Sensors Production (2021-2032) & (K Units)
Figure 15. Battery Off-Gas Sensors Market Drivers
Figure 16. Factors Affecting Demand
Figure 17. World Battery Off-Gas Sensors Consumption (2021-2032) & (K Units)
Figure 18. World Battery Off-Gas Sensors Consumption Market Share by Region (2021-2032)
Figure 19. United States Battery Off-Gas Sensors Consumption (2021-2032) & (K Units)
Figure 20. China Battery Off-Gas Sensors Consumption (2021-2032) & (K Units)
Figure 21. Europe Battery Off-Gas Sensors Consumption (2021-2032) & (K Units)
Figure 22. Japan Battery Off-Gas Sensors Consumption (2021-2032) & (K Units)
Figure 23. South Korea Battery Off-Gas Sensors Consumption (2021-2032) & (K Units)
Figure 24. ASEAN Battery Off-Gas Sensors Consumption (2021-2032) & (K Units)
Figure 25. India Battery Off-Gas Sensors Consumption (2021-2032) & (K Units)
Figure 26. Producer Shipments of Battery Off-Gas Sensors by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 27. Global Four-firm Concentration Ratios (CR4) for Battery Off-Gas Sensors Markets in 2025
Figure 28. Global Four-firm Concentration Ratios (CR8) for Battery Off-Gas Sensors

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Markets in 2025
Figure 29. United States VS China: Battery Off-Gas Sensors Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 30. United States VS China: Battery Off-Gas Sensors Production Market Share Comparison (2021 & 2025 & 2032)
Figure 31. United States VS China: Battery Off-Gas Sensors Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 32. United States Based Manufacturers Battery Off-Gas Sensors Production Market Share 2025
Figure 33. China Based Manufacturers Battery Off-Gas Sensors Production Market Share 2025
Figure 34. Rest of World Based Manufacturers Battery Off-Gas Sensors Production Market Share 2025
Figure 35. World Battery Off-Gas Sensors Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 36. World Battery Off-Gas Sensors Production Value Market Share by Type in 2025
Figure 37. Metal Oxide Semiconductor Sensors
Figure 38. Electrochemical Sensors
Figure 39. Optical and Infrared Sensors
Figure 40. World Battery Off-Gas Sensors Production Market Share by Type (2021-2032)
Figure 41. World Battery Off-Gas Sensors Production Value Market Share by Type (2021-2032)
Figure 42. World Battery Off-Gas Sensors Average Price by Type (2021-2032) & (US$/Unit)
Figure 43. World Battery Off-Gas Sensors Production Value by Target Gas, (USD Million), 2021 & 2025 & 2032
Figure 44. World Battery Off-Gas Sensors Production Value Market Share by Target Gas in 2025
Figure 45. Hydrogen and Carbon Monoxide Sensors
Figure 46. Volatile Organic Compound Sensors
Figure 47. Multi-gas Sensors
Figure 48. World Battery Off-Gas Sensors Production Market Share by Target Gas (2021-2032)
Figure 49. World Battery Off-Gas Sensors Production Value Market Share by Target Gas (2021-2032)
Figure 50. World Battery Off-Gas Sensors Average Price by Target Gas (2021-2032) & (US$/Unit)

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Figure 51. World Battery Off-Gas Sensors Production Value by Gas Detection Range, (USD Million), 2021 & 2025 & 2032
Figure 52. World Battery Off-Gas Sensors Production Value Market Share by Gas Detection Range in 2025
Figure 53. Low-range(?100 ppm)
Figure 54. Medium-range(>100–1,000 ppm)
Figure 55. High-range(>1,000 ppm)
Figure 56. World Battery Off-Gas Sensors Production Market Share by Gas Detection Range (2021-2032)
Figure 57. World Battery Off-Gas Sensors Production Value Market Share by Gas Detection Range (2021-2032)
Figure 58. World Battery Off-Gas Sensors Average Price by Gas Detection Range (2021-2032) & (US$/Unit)
Figure 59. World Battery Off-Gas Sensors Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 60. World Battery Off-Gas Sensors Production Value Market Share by Application in 2025
Figure 61. Thermal Runaway Early Warning
Figure 62. Battery Leakage and Venting Detection
Figure 63. Battery Condition and Safety Monitoring
Figure 64. Other
Figure 65. World Battery Off-Gas Sensors Production Market Share by Application (2021-2032)
Figure 66. World Battery Off-Gas Sensors Production Value Market Share by Application (2021-2032)
Figure 67. World Battery Off-Gas Sensors Average Price by Application (2021-2032) & (US$/Unit)
Figure 68. Battery Off-Gas Sensors Industry Chain
Figure 69. Battery Off-Gas Sensors Procurement Model
Figure 70. Battery Off-Gas Sensors Sales Model
Figure 71. Battery Off-Gas Sensors Sales Channels, Direct Sales, and Distribution
Figure 72. Methodology
Figure 73. Research Process and Data Source

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