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Global Battery Off-Gas Sensors Market Growth 2026-2032

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Abstracts

The global Battery Off-Gas Sensors market size is predicted to grow from US$ 279 million in 2025 to US$ 848 million in 2032; it is expected to grow at a CAGR of 17.4% from 2026 to 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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United States market for Battery Off-Gas Sensors is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Battery Off-Gas Sensors is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Battery Off-Gas Sensors is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Battery Off-Gas Sensors players cover Honeywell International Inc., Sensirion AG, FIGARO Engineering Inc., Metis Engineering Ltd., Securiton AG, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Battery Off-Gas Sensors Industry Forecast” looks at past sales and reviews total world Battery Off-Gas Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Battery Off-Gas Sensors sales for 2026 through 2032. With Battery Off-Gas Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Battery Off-Gas Sensors industry.

This Insight Report provides a comprehensive analysis of the global Battery Off-Gas Sensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Battery Off-Gas Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Battery Off-Gas Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Battery Off-Gas Sensors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Battery Off-Gas Sensors.

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This report presents a comprehensive overview, market shares, and growth opportunities of Battery Off-Gas Sensors market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Metal Oxide Semiconductor Sensors

Electrochemical Sensors

Optical and Infrared Sensors

Segmentation by Target Gas:

Hydrogen and Carbon Monoxide Sensors

Volatile Organic Compound Sensors

Multi-gas Sensors

Segmentation by Gas Detection Range:

Low-range??100 ppm?

Medium-range??100–1,000 ppm?

High-range??1,000 ppm?

Segmentation by Application:

Thermal Runaway Early Warning

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Battery Leakage and Venting Detection

Battery Condition and Safety Monitoring

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

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UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Honeywell International Inc.

Sensirion AG

FIGARO Engineering Inc.

Metis Engineering Ltd.

Securiton AG

Kentec Electronics Ltd.

Bosch Sensortec GmbH

SGX Sensortech Limited

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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.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Battery Off-Gas Sensors market?

What factors are driving Battery Off-Gas Sensors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Battery Off-Gas Sensors market opportunities vary by end market size?

How does Battery Off-Gas Sensors break out by Type, by Application?

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