

Global Automotive Battery Thermal Runaway Detection Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Battery Thermal Runaway Detection Sensor market size was valued at US\$ 535 million in 2025 and is forecast to a readjusted size of US\$ 1306 million by 2032 with a CAGR of 13.2% during review period.

Automotive Battery Thermal Runaway Detection Sensors are safety sensing devices used in electric vehicle battery systems to detect early warning signs of thermal runaway events. These sensors monitor parameters such as gas generation, pressure variation, temperature anomalies, smoke, volatile organic compounds (VOC), and electrolyte decomposition products, enabling battery management systems (BMS) to initiate protective actions before catastrophic battery failure occurs. The industrial chain of Automotive Battery Thermal Runaway Detection Sensors includes upstream MEMS sensing elements, gas sensors, pressure sensors, temperature sensors, semiconductor chips, packaging materials, and signal processing components. The midstream consists of automotive sensor manufacturers that design, assemble, calibrate, and validate thermal runaway detection modules. Downstream applications include battery pack manufacturers, EV OEMs, battery management system suppliers, commercial EV producers, and energy storage system integrators. Supporting services include reliability testing, functional safety validation, software calibration, and vehicle integration support. In 2025, global Automotive Battery Thermal Runaway Detection Sensor production reached approximately 34.67 million units, with an average global market price of around US\$15 per unit. The gross profit margin of major companies in the industry is between 25%-45%. In 2025, the global production capacity of Automotive Battery Thermal Runaway Detection Sensors was approximately 46.22 million units.

The automotive battery thermal runaway detection sensor market is one of the fastest-growing segments within EV battery safety systems. Growth is primarily driven by increasing battery safety requirements, rising battery energy density, and increasingly stringent regulatory standards. Compared with traditional temperature monitoring approaches, thermal runaway detection sensors can identify electrolyte decomposition gases, abnormal pressure changes, and early thermal events at a much earlier stage, providing battery management systems with advanced warning capabilities and significantly improving vehicle safety. As battery technologies evolve toward higher energy density, larger capacity, and ultra-fast charging architectures, the importance of thermal management and safety monitoring continues to increase. Future development will focus on multi-parameter sensing solutions combining gas, temperature, and pressure monitoring, intelligent diagnostic algorithms, and deeper integration with battery management systems. Growing regulatory attention to thermal runaway prevention across Europe, North America, and China is expected to accelerate adoption of these sensors throughout the EV industry.

This report is a detailed and comprehensive analysis for global Automotive Battery Thermal Runaway Detection Sensor 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 Battery Thermal Runaway Detection Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Battery Thermal Runaway Detection Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Battery Thermal Runaway Detection Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Battery Thermal Runaway Detection Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 Battery Thermal Runaway Detection Sensor

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 Battery Thermal Runaway Detection Sensor 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 Honeywell International Inc., Schaeffler AG, Sensirion AG, Amphenol Advanced Sensors, Cubic Sensor And Instrument, Metis Engineering Ltd., ScioSense, Valeo, Sangbay, Hanwei Electronics Group Corporation, etc.

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

Market Segmentation

Automotive Battery Thermal Runaway Detection Sensor market is split by Type and by Application. For the period 2021-2032, 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

Gas Detection Sensor

Aerosol Detection Sensor

Multi-Parameter Detection Sensor

Market segment by Sensing Principle

NTC Temperature Sensor

MEMS Pressure Sensor

Electrochemical Gas Sensor

Semiconductor Gas Sensor

Optical Smoke Sensor

Infrared Gas Sensor

Market segment by Response time

Below 5 Seconds Response Time

5-10 Seconds Response Time

Above 10 Seconds Response Time

Market segment by Application

Battery Electric Vehicles

Plug-in Hybrid Electric Vehicles

Major players covered

Honeywell International Inc.

Schaeffler AG

Sensirion AG

Amphenol Advanced Sensors

Cubic Sensor And Instrument

Metis Engineering Ltd.

ScioSense

Valeo

Sangbay

Hanwei Electronics Group Corporation

Zhengzhou Winsen Electronics Technology

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 Battery Thermal Runaway Detection Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Battery Thermal Runaway Detection Sensor, with price, sales quantity, revenue, and global market share of Automotive Battery Thermal Runaway Detection Sensor from 2021 to 2026.

Chapter 3, the Automotive Battery Thermal Runaway Detection Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Battery Thermal Runaway Detection Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Automotive Battery Thermal Runaway Detection Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Battery Thermal Runaway Detection Sensor.

Chapter 14 and 15, to describe Automotive Battery Thermal Runaway Detection Sensor sales channel, distributors, customers, research findings and conclusion.

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