

Global Automotive Battery Thermal Runaway Detection Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Battery Thermal Runaway Detection Sensor market size is expected to reach \$ 1306 million by 2032, rising at a market growth of 13.2% CAGR during the forecast period (2026-2032).

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 studies the global Automotive Battery Thermal Runaway Detection Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Battery Thermal Runaway Detection Sensor 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 Automotive Battery Thermal Runaway Detection Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Battery Thermal Runaway Detection Sensor total production and demand, 2021-2032, (K Units)

Global Automotive Battery Thermal Runaway Detection Sensor total production value, 2021-2032, (USD Million)

Global Automotive Battery Thermal Runaway Detection Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Battery Thermal Runaway Detection Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Battery Thermal Runaway Detection Sensor domestic production, consumption, key domestic manufacturers and share

Global Automotive Battery Thermal Runaway Detection Sensor production by

manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive Battery Thermal Runaway Detection Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Battery Thermal Runaway Detection Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Battery Thermal Runaway Detection Sensor 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., 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Battery Thermal Runaway Detection Sensor 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 Automotive Battery Thermal Runaway Detection Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Battery Thermal Runaway Detection Sensor Market, Segmentation by Type:

Gas Detection Sensor

Aerosol Detection Sensor

Multi-Parameter Detection Sensor

Global Automotive Battery Thermal Runaway Detection Sensor Market, Segmentation by Sensing Principle:

NTC Temperature Sensor

MEMS Pressure Sensor

Electrochemical Gas Sensor

Semiconductor Gas Sensor

Optical Smoke Sensor

Infrared Gas Sensor

Global Automotive Battery Thermal Runaway Detection Sensor Market, Segmentation by Response time:

Below 5 Seconds Response Time

5-10 Seconds Response Time

Above 10 Seconds Response Time

Global Automotive Battery Thermal Runaway Detection Sensor Market, Segmentation by Application:

Battery Electric Vehicles

Plug-in Hybrid Electric Vehicles

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Automotive Battery Thermal Runaway Detection Sensor market?
2. What is the demand of the global Automotive Battery Thermal Runaway Detection Sensor market?
3. What is the year over year growth of the global Automotive Battery Thermal Runaway Detection Sensor market?
4. What is the production and production value of the global Automotive Battery Thermal Runaway Detection Sensor market?
5. Who are the key producers in the global Automotive Battery Thermal Runaway Detection Sensor market?
6. What are the growth factors driving the market demand?

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