

Global Lithium-ion Battery Thermal Runaway All-in-One Sensor Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GA186E7C34E2EN.html>

Date: December 2025

Pages: 154

Price: US\$ 4,480.00 (Single User License)

ID: GA186E7C34E2EN

Abstracts

The global Lithium-ion Battery Thermal Runaway All-in-One Sensor market size is expected to reach \$ 1219 million by 2032, rising at a market growth of 17.2% CAGR during the forecast period (2026-2032).

The Lithium-ion Battery Thermal Runaway All-in-One Sensor is an integrated sensing terminal for safety monitoring of lithium-ion battery packs. It can monitor and identify key physical and chemical characteristic signals (such as temperature, pressure, gas concentration, voltage, and current) during the thermal runaway process in real time, and issue warnings or put the system into a protective state when abnormal precursors are detected, thereby preventing serious safety accidents such as fires and explosions caused by thermal runaway. By integrating multiple parameter measurement modules, this sensor solves the problem that traditional single measurement technologies cannot comprehensively capture the complex signals of thermal runaway, helping to improve the safety and reliability of battery systems (including electric vehicles, power tools, and energy storage systems) throughout their entire lifecycle. Thermal runaway is a serious failure mode in which lithium batteries enter a self-accelerating exothermic reaction under conditions of overheating, short circuit, mechanical damage, or internal defects. Related monitoring is crucial for ensuring the safety of battery systems. In 2025, the global production of Lithium-ion Battery Thermal Runaway All-in-One Sensors reached 6.94136 million units, with an average selling price of US\$56.06 per unit and a gross margin of approximately 30%-55%.

Market Opportunities and Key Drivers: With the rapid global adoption of electric vehicles (EVs), energy storage systems (ESS), and consumer electronics, unprecedented demands are being placed on the safety of lithium-ion batteries. Particularly in the new energy vehicle industry, thermal runaway events not only cause significant economic losses but also threaten user safety, driving vehicle and energy storage system

manufacturers to accelerate the adoption of advanced safety monitoring solutions. Multi-sensor systems, by simultaneously monitoring multiple key indicators such as temperature, pressure, and gas release, can provide earlier and more accurate warnings of thermal runaway, effectively improving the overall safety of battery systems. Furthermore, the gradual improvement of regulations and standards, as well as changes in the risk pricing mechanisms for safety events by insurance institutions, are further driving market demand for highly integrated safety sensing technologies.

Market Challenges and Risks: Despite the broad market prospects, the challenges facing these sensors cannot be ignored. First, the integration of sensing technologies and the accuracy of algorithms determine system reliability, while the complexity of different battery chemistry systems places higher demands on sensor model design. Second, since multi-sensor integration increases system costs, finding an optimal balance between cost and performance is crucial for companies to promote and apply these technologies. Furthermore, different application scenarios (such as electric vehicles, energy storage power stations, and consumer electronics) have varying requirements for sensor response speed, stability, and environmental adaptability. This necessitates suppliers developing diverse product strategies and undergoing rigorous industry certification processes.

Downstream Demand Trends: Downstream market demand trends exhibit a 'dual-drive' characteristic of safety and intelligence. Integrated safety monitoring solutions for automobiles have become an industry standard, especially in high-energy battery packs, where multi-parameter safety sensors are considered essential protective components. In the energy storage system sector, the demand for long-term stable operation and full lifecycle safety monitoring is also driving the growth of advanced sensing technologies. In addition, the demand for lightweight, high-response-rate sensors in consumer electronics and portable devices is continuously increasing. With the application of artificial intelligence and edge computing technologies, thermal runaway sensors will be deeply integrated with battery management systems (BMS) in the future, gradually evolving into intelligent early warning and automatic protection systems, with market size and technological maturity increasing simultaneously. This report studies the global Lithium-ion Battery Thermal Runaway All-in-One Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lithium-ion Battery Thermal Runaway All-in-One 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 Lithium-ion Battery Thermal Runaway All-in-One Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Lithium-ion Battery Thermal Runaway All-in-One Sensor total production and demand, 2021-2032, (K Units)

Global Lithium-ion Battery Thermal Runaway All-in-One Sensor total production value, 2021-2032, (USD Million)

Global Lithium-ion Battery Thermal Runaway All-in-One Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Lithium-ion Battery Thermal Runaway All-in-One Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Lithium-ion Battery Thermal Runaway All-in-One Sensor domestic production, consumption, key domestic manufacturers and share

Global Lithium-ion Battery Thermal Runaway All-in-One Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Lithium-ion Battery Thermal Runaway All-in-One Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Lithium-ion Battery Thermal Runaway All-in-One Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Lithium-ion Battery Thermal Runaway All-in-One 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 Amphenol Advanced Sensors, Honeywell International Inc., Metis Engineering Ltd., Analog Devices, Sensata Technologies, Infineon Technologies, Valeo, ScioSense, Fosensor, Ruikong, 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 Lithium-ion Battery Thermal Runaway All-in-One 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 Lithium-ion Battery Thermal Runaway All-in-One Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium-ion Battery Thermal Runaway All-in-One Sensor Market, Segmentation by Type:

Dual Parameter

All-in-one Integration

Integration with BMS Systems

Global Lithium-ion Battery Thermal Runaway All-in-One Sensor Market, Segmentation by Technology:

Thermal Resistance Sensing

MEMS Sensing

Gas Sensing

Pressure Sensing

Hybrid Sensing

Global Lithium-ion Battery Thermal Runaway All-in-One Sensor Market, Segmentation by Sales:

Direct Selling

Distribution

Global Lithium-ion Battery Thermal Runaway All-in-One Sensor Market, Segmentation by Application:

Electric Vehicles

Energy Storage Systems

Robotics & Low-Altitude Flight

Consumer Electronics

Others

Companies Profiled:

Amphenol Advanced Sensors

Honeywell International Inc.

Metis Engineering Ltd.

Analog Devices

Sensata Technologies

Infineon Technologies

Valeo

ScioSense

Fosensor

Ruikong

Jthmems

Fosen Sensor

Wuhan CloudScout Science&Technology Co.,LTD

Hanwei Electronics Group Corporation

Cubic Sensor

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Key Questions Answered:

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

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Figure 72. Lithium-ion Battery Thermal Runaway All-in-One Sensor Sales Model

Figure 73. Lithium-ion Battery Thermal Runaway All-in-One Sensor Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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