

# Global Lithium-ion Battery Thermal Runaway All-in-One 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 Lithium-ion Battery Thermal Runaway All-in-One Sensor market size was valued at US\$ 400 million in 2025 and is forecast to a readjusted size of US\$ 1219 million by 2032 with a CAGR of 17.2% during review period.

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

Global Lithium-ion Battery Thermal Runaway All-in-One 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 Lithium-ion Battery Thermal Runaway All-in-One 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 Lithium-ion Battery Thermal Runaway All-in-One 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 Lithium-ion Battery Thermal Runaway All-in-One 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 Lithium-ion Battery Thermal Runaway All-in-One 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 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.

## **Market Segmentation**

Lithium-ion Battery Thermal Runaway All-in-One 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

Dual Parameter

All-in-one Integration

Integration with BMS Systems

### Market segment by Technology

Thermal Resistance Sensing

MEMS Sensing

Gas Sensing

Pressure Sensing

Hybrid Sensing

## Market segment by Sales

Direct Selling

Distribution

## Market segment by Application

Electric Vehicles

Energy Storage Systems

Robotics & Low-Altitude Flight

Consumer Electronics

Others

## Major players covered

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

DrKsir

INNOMIC

Luftmy

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 Lithium-ion Battery Thermal Runaway All-in-One Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lithium-ion Battery Thermal Runaway All-in-One Sensor, with price, sales quantity, revenue, and global market share of Lithium-ion Battery Thermal Runaway All-in-One Sensor from 2021 to 2026.

Chapter 3, the Lithium-ion Battery Thermal Runaway All-in-One Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Lithium-ion Battery Thermal Runaway All-in-One 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 Lithium-ion Battery Thermal Runaway All-in-One 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 Lithium-ion Battery Thermal Runaway All-in-One Sensor.

Chapter 14 and 15, to describe Lithium-ion Battery Thermal Runaway All-in-One Sensor sales channel, distributors, customers, research findings and conclusion.

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