

Global Thermal Runaway 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 Thermal Runaway Sensor market size was valued at US\$ 834 million in 2025 and is forecast to a readjusted size of US\$ 2526 million by 2032 with a CAGR of 17.1% during review period.

In 2025, global production of thermal runaway sensors reached 17.3534 million units, with an average selling price of \$46.72 per unit and a gross margin of approximately 30%?55%. A thermal runaway sensor is a sensor used to monitor changes in temperature, gas, or pressure in lithium batteries or battery systems in real time, designed to detect potential thermal runaway phenomena that may occur during charging and discharging. Thermal runaway refers to a chemical reaction in the battery caused by factors such as overcharging, short circuits, or high temperatures, which can lead to a rapid increase in battery temperature and potentially cause a fire or explosion. These sensors are typically used in battery management systems (BMS) to provide early warnings and prevent battery safety accidents.

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

Global Thermal Runaway 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 Thermal Runaway 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 Thermal Runaway 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 Thermal Runaway 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 Thermal Runaway 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

Thermal Runaway 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

Temperature Monitoring

Pressure Monitoring

Gas Concentration Monitoring

Multi-Parameter Integrated

Others

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

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

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

Chapter 4, the Thermal Runaway 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 Thermal Runaway 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 Thermal Runaway Sensor.

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

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