

# Global Thermal Runaway Sensor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Thermal Runaway Sensor market size is expected to reach \$ 2526 million by 2032, rising at a market growth of 17.1% CAGR during the forecast period (2026-2032). 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 studies the global Thermal Runaway Sensor production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

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

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

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

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

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

Global Thermal Runaway Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

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

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

This report profiles key players in the global Thermal Runaway 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 Thermal Runaway 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 Thermal Runaway Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Thermal Runaway Sensor Market, Segmentation by Type:

- Temperature Monitoring
- Pressure Monitoring
- Gas Concentration Monitoring
- Multi-Parameter Integrated
- Others

### Global Thermal Runaway Sensor Market, Segmentation by Technology:

- Thermal Resistance Sensing
- MEMS Sensing
- Gas Sensing
- Pressure Sensing
- Hybrid Sensing

### Global Thermal Runaway Sensor Market, Segmentation by Sales:

- Direct Selling
- Distribution

### Global Thermal Runaway 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

DrKsir

INNOMIC

Luftmy

**Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Thermal Runaway Sensor Introduction
- 1.2 World Thermal Runaway Sensor Supply & Forecast
  - 1.2.1 World Thermal Runaway Sensor Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Thermal Runaway Sensor Production (2021-2032)
  - 1.2.3 World Thermal Runaway Sensor Pricing Trends (2021-2032)
- 1.3 World Thermal Runaway Sensor Production by Region (Based on Production Site)
  - 1.3.1 World Thermal Runaway Sensor Production Value by Region (2021-2032)
  - 1.3.2 World Thermal Runaway Sensor Production by Region (2021-2032)
  - 1.3.3 World Thermal Runaway Sensor Average Price by Region (2021-2032)
  - 1.3.4 North America Thermal Runaway Sensor Production (2021-2032)
  - 1.3.5 Europe Thermal Runaway Sensor Production (2021-2032)
  - 1.3.6 China Thermal Runaway Sensor Production (2021-2032)
  - 1.3.7 Japan Thermal Runaway Sensor Production (2021-2032)
  - 1.3.8 South Korea Thermal Runaway Sensor Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Thermal Runaway Sensor Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Thermal Runaway Sensor Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Thermal Runaway Sensor Demand (2021-2032)
- 2.2 World Thermal Runaway Sensor Consumption by Region
  - 2.2.1 World Thermal Runaway Sensor Consumption by Region (2021-2026)
  - 2.2.2 World Thermal Runaway Sensor Consumption Forecast by Region (2027-2032)
- 2.3 United States Thermal Runaway Sensor Consumption (2021-2032)
- 2.4 China Thermal Runaway Sensor Consumption (2021-2032)
- 2.5 Europe Thermal Runaway Sensor Consumption (2021-2032)
- 2.6 Japan Thermal Runaway Sensor Consumption (2021-2032)
- 2.7 South Korea Thermal Runaway Sensor Consumption (2021-2032)
- 2.8 ASEAN Thermal Runaway Sensor Consumption (2021-2032)
- 2.9 India Thermal Runaway Sensor Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Thermal Runaway Sensor Production Value by Manufacturer (2021-2026)
- 3.2 World Thermal Runaway Sensor Production by Manufacturer (2021-2026)
- 3.3 World Thermal Runaway Sensor Average Price by Manufacturer (2021-2026)
- 3.4 Thermal Runaway Sensor Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Thermal Runaway Sensor Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Thermal Runaway Sensor in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Thermal Runaway Sensor in 2025
- 3.6 Thermal Runaway Sensor Market: Overall Company Footprint Analysis
  - 3.6.1 Thermal Runaway Sensor Market: Region Footprint
  - 3.6.2 Thermal Runaway Sensor Market: Company Product Type Footprint
  - 3.6.3 Thermal Runaway Sensor Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Thermal Runaway Sensor Production Value Comparison
  - 4.1.1 United States VS China: Thermal Runaway Sensor Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Thermal Runaway Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Thermal Runaway Sensor Production Comparison
  - 4.2.1 United States VS China: Thermal Runaway Sensor Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Thermal Runaway Sensor Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Thermal Runaway Sensor Consumption Comparison
  - 4.3.1 United States VS China: Thermal Runaway Sensor Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Thermal Runaway Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Thermal Runaway Sensor Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Thermal Runaway Sensor Manufacturers, Headquarters

and Production Site (States, Country)

4.4.2 United States Based Manufacturers Thermal Runaway Sensor Production Value (2021-2026)

4.4.3 United States Based Manufacturers Thermal Runaway Sensor Production (2021-2026)

4.5 China Based Thermal Runaway Sensor Manufacturers and Market Share

4.5.1 China Based Thermal Runaway Sensor Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Thermal Runaway Sensor Production Value (2021-2026)

4.5.3 China Based Manufacturers Thermal Runaway Sensor Production (2021-2026)

4.6 Rest of World Based Thermal Runaway Sensor Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Thermal Runaway Sensor Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Thermal Runaway Sensor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Thermal Runaway Sensor Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Thermal Runaway Sensor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Temperature Monitoring

5.2.2 Pressure Monitoring

5.2.3 Gas Concentration Monitoring

5.2.4 Multi-Parameter Integrated

5.2.5 Others

5.3 Market Segment by Type

5.3.1 World Thermal Runaway Sensor Production by Type (2021-2032)

5.3.2 World Thermal Runaway Sensor Production Value by Type (2021-2032)

5.3.3 World Thermal Runaway Sensor Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY TECHNOLOGY**

6.1 World Thermal Runaway Sensor Market Size Overview by Technology: 2021 VS 2025 VS 2032

## 6.2 Segment Introduction by Technology

- 6.2.1 Thermal Resistance Sensing
- 6.2.2 MEMS Sensing
- 6.2.3 Gas Sensing
- 6.2.4 Pressure Sensing
- 6.2.5 Hybrid Sensing

## 6.3 Market Segment by Technology

- 6.3.1 World Thermal Runaway Sensor Production by Technology (2021-2032)
- 6.3.2 World Thermal Runaway Sensor Production Value by Technology (2021-2032)
- 6.3.3 World Thermal Runaway Sensor Average Price by Technology (2021-2032)

# 7 MARKET ANALYSIS BY SALES

## 7.1 World Thermal Runaway Sensor Market Size Overview by Sales: 2021 VS 2025 VS 2032

### 7.2 Segment Introduction by Sales

- 7.2.1 Direct Selling
- 7.2.2 Distribution

### 7.3 Market Segment by Sales

- 7.3.1 World Thermal Runaway Sensor Production by Sales (2021-2032)
- 7.3.2 World Thermal Runaway Sensor Production Value by Sales (2021-2032)
- 7.3.3 World Thermal Runaway Sensor Average Price by Sales (2021-2032)

# 8 MARKET ANALYSIS BY APPLICATION

## 8.1 World Thermal Runaway Sensor Market Size Overview by Application: 2021 VS 2025 VS 2032

### 8.2 Segment Introduction by Application

- 8.2.1 Electric Vehicles
- 8.2.2 Energy Storage Systems
- 8.2.3 Robotics & Low-Altitude Flight
- 8.2.4 Consumer Electronics
- 8.2.5 Others

### 8.3 Market Segment by Application

- 8.3.1 World Thermal Runaway Sensor Production by Application (2021-2032)
- 8.3.2 World Thermal Runaway Sensor Production Value by Application (2021-2032)
- 8.3.3 World Thermal Runaway Sensor Average Price by Application (2021-2032)

# 9 COMPANY PROFILES

## 9.1 Amphenol Advanced Sensors

9.1.1 Amphenol Advanced Sensors Details

9.1.2 Amphenol Advanced Sensors Major Business

9.1.3 Amphenol Advanced Sensors Thermal Runaway Sensor Product and Services

9.1.4 Amphenol Advanced Sensors Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Amphenol Advanced Sensors Recent Developments/Updates

9.1.6 Amphenol Advanced Sensors Competitive Strengths & Weaknesses

## 9.2 Honeywell International Inc.

9.2.1 Honeywell International Inc. Details

9.2.2 Honeywell International Inc. Major Business

9.2.3 Honeywell International Inc. Thermal Runaway Sensor Product and Services

9.2.4 Honeywell International Inc. Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Honeywell International Inc. Recent Developments/Updates

9.2.6 Honeywell International Inc. Competitive Strengths & Weaknesses

## 9.3 Metis Engineering Ltd.

9.3.1 Metis Engineering Ltd. Details

9.3.2 Metis Engineering Ltd. Major Business

9.3.3 Metis Engineering Ltd. Thermal Runaway Sensor Product and Services

9.3.4 Metis Engineering Ltd. Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Metis Engineering Ltd. Recent Developments/Updates

9.3.6 Metis Engineering Ltd. Competitive Strengths & Weaknesses

## 9.4 Analog Devices

9.4.1 Analog Devices Details

9.4.2 Analog Devices Major Business

9.4.3 Analog Devices Thermal Runaway Sensor Product and Services

9.4.4 Analog Devices Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Analog Devices Recent Developments/Updates

9.4.6 Analog Devices Competitive Strengths & Weaknesses

## 9.5 Sensata Technologies

9.5.1 Sensata Technologies Details

9.5.2 Sensata Technologies Major Business

9.5.3 Sensata Technologies Thermal Runaway Sensor Product and Services

9.5.4 Sensata Technologies Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.5.5 Sensata Technologies Recent Developments/Updates
- 9.5.6 Sensata Technologies Competitive Strengths & Weaknesses
- 9.6 Infineon Technologies
  - 9.6.1 Infineon Technologies Details
  - 9.6.2 Infineon Technologies Major Business
  - 9.6.3 Infineon Technologies Thermal Runaway Sensor Product and Services
  - 9.6.4 Infineon Technologies Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Infineon Technologies Recent Developments/Updates
  - 9.6.6 Infineon Technologies Competitive Strengths & Weaknesses
- 9.7 Valeo
  - 9.7.1 Valeo Details
  - 9.7.2 Valeo Major Business
  - 9.7.3 Valeo Thermal Runaway Sensor Product and Services
  - 9.7.4 Valeo Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Valeo Recent Developments/Updates
  - 9.7.6 Valeo Competitive Strengths & Weaknesses
- 9.8 ScioSense
  - 9.8.1 ScioSense Details
  - 9.8.2 ScioSense Major Business
  - 9.8.3 ScioSense Thermal Runaway Sensor Product and Services
  - 9.8.4 ScioSense Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 ScioSense Recent Developments/Updates
  - 9.8.6 ScioSense Competitive Strengths & Weaknesses
- 9.9 Fosensor
  - 9.9.1 Fosensor Details
  - 9.9.2 Fosensor Major Business
  - 9.9.3 Fosensor Thermal Runaway Sensor Product and Services
  - 9.9.4 Fosensor Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Fosensor Recent Developments/Updates
  - 9.9.6 Fosensor Competitive Strengths & Weaknesses
- 9.10 Ruikong
  - 9.10.1 Ruikong Details
  - 9.10.2 Ruikong Major Business
  - 9.10.3 Ruikong Thermal Runaway Sensor Product and Services
  - 9.10.4 Ruikong Thermal Runaway Sensor Production, Price, Value, Gross Margin and

## Market Share (2021-2026)

9.10.5 Ruikong Recent Developments/Updates

9.10.6 Ruikong Competitive Strengths & Weaknesses

## 9.11 Jthmems

9.11.1 Jthmems Details

9.11.2 Jthmems Major Business

9.11.3 Jthmems Thermal Runaway Sensor Product and Services

9.11.4 Jthmems Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Jthmems Recent Developments/Updates

9.11.6 Jthmems Competitive Strengths & Weaknesses

## 9.12 Fosen Sensor

9.12.1 Fosen Sensor Details

9.12.2 Fosen Sensor Major Business

9.12.3 Fosen Sensor Thermal Runaway Sensor Product and Services

9.12.4 Fosen Sensor Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Fosen Sensor Recent Developments/Updates

9.12.6 Fosen Sensor Competitive Strengths & Weaknesses

## 9.13 Wuhan CloudScout Science&Technology Co.,LTD

9.13.1 Wuhan CloudScout Science&Technology Co.,LTD Details

9.13.2 Wuhan CloudScout Science&Technology Co.,LTD Major Business

9.13.3 Wuhan CloudScout Science&Technology Co.,LTD Thermal Runaway Sensor Product and Services

9.13.4 Wuhan CloudScout Science&Technology Co.,LTD Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Wuhan CloudScout Science&Technology Co.,LTD Recent Developments/Updates

9.13.6 Wuhan CloudScout Science&Technology Co.,LTD Competitive Strengths & Weaknesses

## 9.14 Hanwei Electronics Group Corporation

9.14.1 Hanwei Electronics Group Corporation Details

9.14.2 Hanwei Electronics Group Corporation Major Business

9.14.3 Hanwei Electronics Group Corporation Thermal Runaway Sensor Product and Services

9.14.4 Hanwei Electronics Group Corporation Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Hanwei Electronics Group Corporation Recent Developments/Updates

9.14.6 Hanwei Electronics Group Corporation Competitive Strengths & Weaknesses

## 9.15 Cubic Sensor

### 9.15.1 Cubic Sensor Details

### 9.15.2 Cubic Sensor Major Business

### 9.15.3 Cubic Sensor Thermal Runaway Sensor Product and Services

### 9.15.4 Cubic Sensor Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.15.5 Cubic Sensor Recent Developments/Updates

### 9.15.6 Cubic Sensor Competitive Strengths & Weaknesses

## 9.16 DrKsir

### 9.16.1 DrKsir Details

### 9.16.2 DrKsir Major Business

### 9.16.3 DrKsir Thermal Runaway Sensor Product and Services

### 9.16.4 DrKsir Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.16.5 DrKsir Recent Developments/Updates

### 9.16.6 DrKsir Competitive Strengths & Weaknesses

## 9.17 INNOMIC

### 9.17.1 INNOMIC Details

### 9.17.2 INNOMIC Major Business

### 9.17.3 INNOMIC Thermal Runaway Sensor Product and Services

### 9.17.4 INNOMIC Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.17.5 INNOMIC Recent Developments/Updates

### 9.17.6 INNOMIC Competitive Strengths & Weaknesses

## 9.18 Luftmy

### 9.18.1 Luftmy Details

### 9.18.2 Luftmy Major Business

### 9.18.3 Luftmy Thermal Runaway Sensor Product and Services

### 9.18.4 Luftmy Thermal Runaway Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.18.5 Luftmy Recent Developments/Updates

### 9.18.6 Luftmy Competitive Strengths & Weaknesses

## 10 INDUSTRY CHAIN ANALYSIS

### 10.1 Thermal Runaway Sensor Industry Chain

### 10.2 Thermal Runaway Sensor Upstream Analysis

#### 10.2.1 Thermal Runaway Sensor Core Raw Materials

#### 10.2.2 Main Manufacturers of Thermal Runaway Sensor Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Thermal Runaway Sensor Production Mode

10.6 Thermal Runaway Sensor Procurement Model

10.7 Thermal Runaway Sensor Industry Sales Model and Sales Channels

10.7.1 Thermal Runaway Sensor Sales Model

10.7.2 Thermal Runaway Sensor Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Thermal Runaway Sensor Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Thermal Runaway Sensor Production Value by Region (2021-2026) & (USD Million)

Table 3. World Thermal Runaway Sensor Production Value by Region (2027-2032) & (USD Million)

Table 4. World Thermal Runaway Sensor Production Value Market Share by Region (2021-2026)

Table 5. World Thermal Runaway Sensor Production Value Market Share by Region (2027-2032)

Table 6. World Thermal Runaway Sensor Production by Region (2021-2026) & (K Units)

Table 7. World Thermal Runaway Sensor Production by Region (2027-2032) & (K Units)

Table 8. World Thermal Runaway Sensor Production Market Share by Region (2021-2026)

Table 9. World Thermal Runaway Sensor Production Market Share by Region (2027-2032)

Table 10. World Thermal Runaway Sensor Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Thermal Runaway Sensor Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Thermal Runaway Sensor Major Market Trends

Table 13. World Thermal Runaway Sensor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Thermal Runaway Sensor Consumption by Region (2021-2026) & (K Units)

Table 15. World Thermal Runaway Sensor Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Thermal Runaway Sensor Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Thermal Runaway Sensor Producers in 2025

Table 18. World Thermal Runaway Sensor Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Thermal Runaway Sensor Producers in 2025

Table 20. World Thermal Runaway Sensor Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Thermal Runaway Sensor Company Evaluation Quadrant

Table 22. World Thermal Runaway Sensor Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Thermal Runaway Sensor Production Site of Key Manufacturer

Table 24. Thermal Runaway Sensor Market: Company Product Type Footprint

Table 25. Thermal Runaway Sensor Market: Company Product Application Footprint

Table 26. Thermal Runaway Sensor Competitive Factors

Table 27. Thermal Runaway Sensor New Entrant and Capacity Expansion Plans

Table 28. Thermal Runaway Sensor Mergers & Acquisitions Activity

Table 29. United States VS China Thermal Runaway Sensor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Thermal Runaway Sensor Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Thermal Runaway Sensor Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Thermal Runaway Sensor Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Thermal Runaway Sensor Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Thermal Runaway Sensor Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Thermal Runaway Sensor Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Thermal Runaway Sensor Production Market Share (2021-2026)

Table 37. China Based Thermal Runaway Sensor Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Thermal Runaway Sensor Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Thermal Runaway Sensor Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Thermal Runaway Sensor Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Thermal Runaway Sensor Production Market Share (2021-2026)

Table 42. Rest of World Based Thermal Runaway Sensor Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Thermal Runaway Sensor Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Thermal Runaway Sensor Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Thermal Runaway Sensor Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Thermal Runaway Sensor Production Market Share (2021-2026)

Table 47. World Thermal Runaway Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Thermal Runaway Sensor Production by Type (2021-2026) & (K Units)

Table 49. World Thermal Runaway Sensor Production by Type (2027-2032) & (K Units)

Table 50. World Thermal Runaway Sensor Production Value by Type (2021-2026) & (USD Million)

Table 51. World Thermal Runaway Sensor Production Value by Type (2027-2032) & (USD Million)

Table 52. World Thermal Runaway Sensor Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Thermal Runaway Sensor Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Thermal Runaway Sensor Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World Thermal Runaway Sensor Production by Technology (2021-2026) & (K Units)

Table 56. World Thermal Runaway Sensor Production by Technology (2027-2032) & (K Units)

Table 57. World Thermal Runaway Sensor Production Value by Technology (2021-2026) & (USD Million)

Table 58. World Thermal Runaway Sensor Production Value by Technology (2027-2032) & (USD Million)

Table 59. World Thermal Runaway Sensor Average Price by Technology (2021-2026) & (US\$/Unit)

Table 60. World Thermal Runaway Sensor Average Price by Technology (2027-2032) & (US\$/Unit)

Table 61. World Thermal Runaway Sensor Production Value by Sales, (USD Million), 2021 & 2025 & 2032

Table 62. World Thermal Runaway Sensor Production by Sales (2021-2026) & (K Units)

Table 63. World Thermal Runaway Sensor Production by Sales (2027-2032) & (K Units)

Table 64. World Thermal Runaway Sensor Production Value by Sales (2021-2026) & (USD Million)

Table 65. World Thermal Runaway Sensor Production Value by Sales (2027-2032) & (USD Million)

Table 66. World Thermal Runaway Sensor Average Price by Sales (2021-2026) & (US\$/Unit)

Table 67. World Thermal Runaway Sensor Average Price by Sales (2027-2032) & (US\$/Unit)

Table 68. World Thermal Runaway Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Thermal Runaway Sensor Production by Application (2021-2026) & (K Units)

Table 70. World Thermal Runaway Sensor Production by Application (2027-2032) & (K Units)

Table 71. World Thermal Runaway Sensor Production Value by Application (2021-2026) & (USD Million)

Table 72. World Thermal Runaway Sensor Production Value by Application (2027-2032) & (USD Million)

Table 73. World Thermal Runaway Sensor Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Thermal Runaway Sensor Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Amphenol Advanced Sensors Basic Information, Manufacturing Base and Competitors

Table 76. Amphenol Advanced Sensors Major Business

Table 77. Amphenol Advanced Sensors Thermal Runaway Sensor Product and Services

Table 78. Amphenol Advanced Sensors Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Amphenol Advanced Sensors Recent Developments/Updates

Table 80. Amphenol Advanced Sensors Competitive Strengths & Weaknesses

Table 81. Honeywell International Inc. Basic Information, Manufacturing Base and Competitors

Table 82. Honeywell International Inc. Major Business

Table 83. Honeywell International Inc. Thermal Runaway Sensor Product and Services

Table 84. Honeywell International Inc. Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 85. Honeywell International Inc. Recent Developments/Updates

Table 86. Honeywell International Inc. Competitive Strengths & Weaknesses

Table 87. Metis Engineering Ltd. Basic Information, Manufacturing Base and Competitors

Table 88. Metis Engineering Ltd. Major Business

Table 89. Metis Engineering Ltd. Thermal Runaway Sensor Product and Services

Table 90. Metis Engineering Ltd. Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Metis Engineering Ltd. Recent Developments/Updates

Table 92. Metis Engineering Ltd. Competitive Strengths & Weaknesses

Table 93. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 94. Analog Devices Major Business

Table 95. Analog Devices Thermal Runaway Sensor Product and Services

Table 96. Analog Devices Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Analog Devices Recent Developments/Updates

Table 98. Analog Devices Competitive Strengths & Weaknesses

Table 99. Sensata Technologies Basic Information, Manufacturing Base and Competitors

Table 100. Sensata Technologies Major Business

Table 101. Sensata Technologies Thermal Runaway Sensor Product and Services

Table 102. Sensata Technologies Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Sensata Technologies Recent Developments/Updates

Table 104. Sensata Technologies Competitive Strengths & Weaknesses

Table 105. Infineon Technologies Basic Information, Manufacturing Base and Competitors

Table 106. Infineon Technologies Major Business

Table 107. Infineon Technologies Thermal Runaway Sensor Product and Services

Table 108. Infineon Technologies Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Infineon Technologies Recent Developments/Updates

Table 110. Infineon Technologies Competitive Strengths & Weaknesses

Table 111. Valeo Basic Information, Manufacturing Base and Competitors

- Table 112. Valeo Major Business
- Table 113. Valeo Thermal Runaway Sensor Product and Services
- Table 114. Valeo Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Valeo Recent Developments/Updates
- Table 116. Valeo Competitive Strengths & Weaknesses
- Table 117. ScioSense Basic Information, Manufacturing Base and Competitors
- Table 118. ScioSense Major Business
- Table 119. ScioSense Thermal Runaway Sensor Product and Services
- Table 120. ScioSense Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. ScioSense Recent Developments/Updates
- Table 122. ScioSense Competitive Strengths & Weaknesses
- Table 123. Fosensor Basic Information, Manufacturing Base and Competitors
- Table 124. Fosensor Major Business
- Table 125. Fosensor Thermal Runaway Sensor Product and Services
- Table 126. Fosensor Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Fosensor Recent Developments/Updates
- Table 128. Fosensor Competitive Strengths & Weaknesses
- Table 129. Ruikong Basic Information, Manufacturing Base and Competitors
- Table 130. Ruikong Major Business
- Table 131. Ruikong Thermal Runaway Sensor Product and Services
- Table 132. Ruikong Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Ruikong Recent Developments/Updates
- Table 134. Ruikong Competitive Strengths & Weaknesses
- Table 135. Jthmems Basic Information, Manufacturing Base and Competitors
- Table 136. Jthmems Major Business
- Table 137. Jthmems Thermal Runaway Sensor Product and Services
- Table 138. Jthmems Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Jthmems Recent Developments/Updates
- Table 140. Jthmems Competitive Strengths & Weaknesses
- Table 141. Fosen Sensor Basic Information, Manufacturing Base and Competitors
- Table 142. Fosen Sensor Major Business
- Table 143. Fosen Sensor Thermal Runaway Sensor Product and Services
- Table 144. Fosen Sensor Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 145. Fosen Sensor Recent Developments/Updates

Table 146. Fosen Sensor Competitive Strengths & Weaknesses

Table 147. Wuhan CloudScout Science&Technology Co.,LTD Basic Information, Manufacturing Base and Competitors

Table 148. Wuhan CloudScout Science&Technology Co.,LTD Major Business

Table 149. Wuhan CloudScout Science&Technology Co.,LTD Thermal Runaway Sensor Product and Services

Table 150. Wuhan CloudScout Science&Technology Co.,LTD Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Wuhan CloudScout Science&Technology Co.,LTD Recent Developments/Updates

Table 152. Wuhan CloudScout Science&Technology Co.,LTD Competitive Strengths & Weaknesses

Table 153. Hanwei Electronics Group Corporation Basic Information, Manufacturing Base and Competitors

Table 154. Hanwei Electronics Group Corporation Major Business

Table 155. Hanwei Electronics Group Corporation Thermal Runaway Sensor Product and Services

Table 156. Hanwei Electronics Group Corporation Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Hanwei Electronics Group Corporation Recent Developments/Updates

Table 158. Hanwei Electronics Group Corporation Competitive Strengths & Weaknesses

Table 159. Cubic Sensor Basic Information, Manufacturing Base and Competitors

Table 160. Cubic Sensor Major Business

Table 161. Cubic Sensor Thermal Runaway Sensor Product and Services

Table 162. Cubic Sensor Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Cubic Sensor Recent Developments/Updates

Table 164. Cubic Sensor Competitive Strengths & Weaknesses

Table 165. DrKsir Basic Information, Manufacturing Base and Competitors

Table 166. DrKsir Major Business

Table 167. DrKsir Thermal Runaway Sensor Product and Services

Table 168. DrKsir Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. DrKsir Recent Developments/Updates

Table 170. DrKsir Competitive Strengths & Weaknesses

Table 171. INNOMIC Basic Information, Manufacturing Base and Competitors

Table 172. INNOMIC Major Business

Table 173. INNOMIC Thermal Runaway Sensor Product and Services

Table 174. INNOMIC Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. INNOMIC Recent Developments/Updates

Table 176. INNOMIC Competitive Strengths & Weaknesses

Table 177. Luftmy Basic Information, Manufacturing Base and Competitors

Table 178. Luftmy Major Business

Table 179. Luftmy Thermal Runaway Sensor Product and Services

Table 180. Luftmy Thermal Runaway Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Luftmy Recent Developments/Updates

Table 182. Luftmy Competitive Strengths & Weaknesses

Table 183. Global Key Players of Thermal Runaway Sensor Upstream (Raw Materials)

Table 184. Global Thermal Runaway Sensor Typical Customers

Table 185. Thermal Runaway Sensor Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Thermal Runaway Sensor Picture

Figure 2. World Thermal Runaway Sensor Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Thermal Runaway Sensor Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Thermal Runaway Sensor Production (2021-2032) & (K Units)

Figure 5. World Thermal Runaway Sensor Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Thermal Runaway Sensor Production Value Market Share by Region (2021-2032)

Figure 7. World Thermal Runaway Sensor Production Market Share by Region (2021-2032)

Figure 8. North America Thermal Runaway Sensor Production (2021-2032) & (K Units)

Figure 9. Europe Thermal Runaway Sensor Production (2021-2032) & (K Units)

Figure 10. China Thermal Runaway Sensor Production (2021-2032) & (K Units)

Figure 11. Japan Thermal Runaway Sensor Production (2021-2032) & (K Units)

Figure 12. South Korea Thermal Runaway Sensor Production (2021-2032) & (K Units)

Figure 13. Thermal Runaway Sensor Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Thermal Runaway Sensor Consumption (2021-2032) & (K Units)

Figure 16. World Thermal Runaway Sensor Consumption Market Share by Region (2021-2032)

Figure 17. United States Thermal Runaway Sensor Consumption (2021-2032) & (K Units)

Figure 18. China Thermal Runaway Sensor Consumption (2021-2032) & (K Units)

Figure 19. Europe Thermal Runaway Sensor Consumption (2021-2032) & (K Units)

Figure 20. Japan Thermal Runaway Sensor Consumption (2021-2032) & (K Units)

Figure 21. South Korea Thermal Runaway Sensor Consumption (2021-2032) & (K Units)

Figure 22. ASEAN Thermal Runaway Sensor Consumption (2021-2032) & (K Units)

Figure 23. India Thermal Runaway Sensor Consumption (2021-2032) & (K Units)

Figure 24. Producer Shipments of Thermal Runaway Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Thermal Runaway Sensor Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Thermal Runaway Sensor

## Markets in 2025

Figure 27. United States VS China: Thermal Runaway Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Thermal Runaway Sensor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Thermal Runaway Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Thermal Runaway Sensor Production Market Share 2025

Figure 31. China Based Manufacturers Thermal Runaway Sensor Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Thermal Runaway Sensor Production Market Share 2025

Figure 33. World Thermal Runaway Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Thermal Runaway Sensor Production Value Market Share by Type in 2025

Figure 35. Temperature Monitoring

Figure 36. Pressure Monitoring

Figure 37. Gas Concentration Monitoring

Figure 38. Multi-Parameter Integrated

Figure 39. Others

Figure 40. World Thermal Runaway Sensor Production Market Share by Type (2021-2032)

Figure 41. World Thermal Runaway Sensor Production Value Market Share by Type (2021-2032)

Figure 42. World Thermal Runaway Sensor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World Thermal Runaway Sensor Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Figure 44. World Thermal Runaway Sensor Production Value Market Share by Technology in 2025

Figure 45. Thermal Resistance Sensing

Figure 46. MEMS Sensing

Figure 47. Gas Sensing

Figure 48. Pressure Sensing

Figure 49. Hybrid Sensing

Figure 50. World Thermal Runaway Sensor Production Market Share by Technology (2021-2032)

Figure 51. World Thermal Runaway Sensor Production Value Market Share by Technology (2021-2032)

Figure 52. World Thermal Runaway Sensor Average Price by Technology (2021-2032) & (US\$/Unit)

Figure 53. World Thermal Runaway Sensor Production Value by Sales, (USD Million), 2021 & 2025 & 2032

Figure 54. World Thermal Runaway Sensor Production Value Market Share by Sales in 2025

Figure 55. Direct Selling

Figure 56. Distribution

Figure 57. World Thermal Runaway Sensor Production Market Share by Sales (2021-2032)

Figure 58. World Thermal Runaway Sensor Production Value Market Share by Sales (2021-2032)

Figure 59. World Thermal Runaway Sensor Average Price by Sales (2021-2032) & (US\$/Unit)

Figure 60. World Thermal Runaway Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 61. World Thermal Runaway Sensor Production Value Market Share by Application in 2025

Figure 62. Electric Vehicles

Figure 63. Energy Storage Systems

Figure 64. Robotics & Low-Altitude Flight

Figure 65. Consumer Electronics

Figure 66. Others

Figure 67. World Thermal Runaway Sensor Production Market Share by Application (2021-2032)

Figure 68. World Thermal Runaway Sensor Production Value Market Share by Application (2021-2032)

Figure 69. World Thermal Runaway Sensor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 70. Thermal Runaway Sensor Industry Chain

Figure 71. Thermal Runaway Sensor Procurement Model

Figure 72. Thermal Runaway Sensor Sales Model

Figure 73. Thermal Runaway Sensor Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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