

Global Temperature Sensor Modules Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G6656AE4FD14EN.html>

Date: April 2026

Pages: 175

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

ID: G6656AE4FD14EN

Abstracts

The global Temperature Sensor Modules market size is expected to reach \$ 1479 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

Temperature Sensor Modules are modular components that integrate temperature sensing, signal processing, and output functionalities. These modules, commonly applied in industries such as industrial automation, smart homes, and consumer electronics, combine various temperature sensor types (such as thermistors, RTDs, thermocouples) with integrated circuits (such as ADCs and signal conditioners). They enable precise temperature monitoring and output data, typically communicating with other systems (e.g., PLCs, MCUs) via digital or analog signals. The modular design not only facilitates system integration but also significantly reduces development costs and time, making it an essential part of many electronic products and industrial equipment.

The market opportunities for temperature sensor modules are driven by several factors. First, with the rapid development of global industrial automation, smart manufacturing, and IoT technologies, the demand for temperature monitoring has significantly increased. Additionally, technological innovations in temperature sensor modules, such as improvements in sensing accuracy, response speed, and system compatibility, have facilitated their implementation across more application scenarios. Moreover, government policies promoting green energy, smart homes, and Industry 4.0 have further accelerated the adoption of temperature sensor modules in intelligent control systems, energy efficiency management, and environmental monitoring. However, fluctuations in raw material prices and controlling module R&D and production costs remain challenges for the industry.

The supply chain of temperature sensor modules includes both upstream and downstream segments. Upstream, the production of temperature sensor modules relies on sensor chip manufacturers, electronic component suppliers, and integrated circuit design companies. Downstream, the modules are widely applied across various industries, with notable demand in industrial automation, consumer electronics, smart homes, and electric vehicles. Notable downstream companies such as TE Connectivity, Parker, Bosch, Schneider Electric, and Omron continue to drive innovation and promote the application of temperature sensor modules. These companies integrate technologies and systems, pushing the diverse applications of temperature sensor modules and providing high-performance, reliable solutions.

The market segmentation trend for temperature sensor modules focuses on specific application scenarios, industry needs, and end users. In the industrial automation sector, there is a rapid increase in demand for high-precision, high-reliability temperature sensor modules, especially with the backdrop of Industry 4.0, where smart devices and factories require precise temperature control. In the consumer electronics sector, the demand for temperature sensor modules is growing, especially in smart home products such as smart air conditioners and intelligent thermostats. Furthermore, the electric vehicle industry is increasingly relying on temperature management systems, particularly in battery management systems (BMS) and power systems, where temperature sensor modules will play an increasingly crucial role.

Regional consumption trends show some differences across markets. North America and Europe show mature demand in smart homes and industrial automation, particularly driven by Industry 4.0 and green energy policies, where the demand for temperature sensor modules is steadily growing. China and the Asia-Pacific region exhibit strong growth potential, especially in emerging industries like smart manufacturing and electric vehicles, where the demand for temperature sensor modules is rapidly increasing. As these regions improve their manufacturing capabilities and technological levels, the demand for temperature sensor modules is expected to continue growing. Additionally, regions like the Middle East and Africa are increasingly focusing on smart devices and industrial automation investments, which could become potential markets in the future.

Latest developments in the temperature sensor module industry have brought about significant technological and market changes. In 2021, Omron announced the launch of a next-generation high-precision temperature sensor module, innovating temperature monitoring solutions for industrial automation systems. In 2022, Schneider Electric partnered with several smart home platforms to release smart home solutions integrated

with temperature sensor modules, successfully promoting market adoption. In 2023, TE Connectivity introduced a temperature sensor module for electric vehicle battery management systems (BMS), enhancing battery efficiency and safety through precise temperature control, marking a significant innovation in the electric vehicle sector.

This report studies the global Temperature Sensor Modules production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Temperature Sensor Modules total production and demand, 2021-2032, (K Units)

Global Temperature Sensor Modules total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Temperature Sensor Modules domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Temperature Sensor Modules 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 TE Connectivity, Schneider Electric, Bosch, Amphenol Thermometrics, ROHM Co., Ltd., Panasonic Industrial, Phoenix Contact, Omron, Honeywell Sensing, Sensirion, 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 Temperature Sensor Modules 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 Temperature Sensor Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Temperature Sensor Modules Market, Segmentation by Type:

General Temperature Sensor

Humidity and Temperature Sensor

Others

Global Temperature Sensor Modules Market, Segmentation by Physical measurement principle:

Thermocouple

RTD (Resistance Temperature Detector)

Thermistor

Infrared Temperature Sensor

Global Temperature Sensor Modules Market, Segmentation by Output signal type:

Analog Output Sensor

Digital Output Sensor

Pulse/Frequency Output Sensor

Wireless/Bluetooth Output Sensor

Global Temperature Sensor Modules Market, Segmentation by Application:

Automotive

Consumer Electronics

Home Appliance

Industrial

Others

Companies Profiled:

TE Connectivity

Schneider Electric

Bosch

Amphenol Thermometrics

ROHM Co., Ltd.

Panasonic Industrial

Phoenix Contact

Omron

Honeywell Sensing

Sensirion

Texas Instruments

STMicroelectronics

Analog Devices

Infineon Technologies

NXP Semiconductors

Sensata Technologies

Jingpu Sensor Co., Ltd.

Star Sensor Technology Co., Ltd.

BDRTD Co., Ltd.

Wuxi ZC Sensor Technology Co., Ltd.

Beijing Kunlun Zhongda Sensor Technology Co., Ltd.

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Temperature Sensor Modules Production Value by Manufacturer (2021-2026)
- 3.2 World Temperature Sensor Modules Production by Manufacturer (2021-2026)
- 3.3 World Temperature Sensor Modules Average Price by Manufacturer (2021-2026)
- 3.4 Temperature Sensor Modules Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Temperature Sensor Modules Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Temperature Sensor Modules in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Temperature Sensor Modules in 2025
- 3.6 Temperature Sensor Modules Market: Overall Company Footprint Analysis
 - 3.6.1 Temperature Sensor Modules Market: Region Footprint
 - 3.6.2 Temperature Sensor Modules Market: Company Product Type Footprint
 - 3.6.3 Temperature Sensor Modules 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: Temperature Sensor Modules Production Value Comparison
 - 4.1.1 United States VS China: Temperature Sensor Modules Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Temperature Sensor Modules Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Temperature Sensor Modules Production Comparison
 - 4.2.1 United States VS China: Temperature Sensor Modules Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Temperature Sensor Modules Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Temperature Sensor Modules Consumption Comparison
 - 4.3.1 United States VS China: Temperature Sensor Modules Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Temperature Sensor Modules Consumption Market

Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Temperature Sensor Modules Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Temperature Sensor Modules Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Temperature Sensor Modules Production Value (2021-2026)

4.4.3 United States Based Manufacturers Temperature Sensor Modules Production (2021-2026)

4.5 China Based Temperature Sensor Modules Manufacturers and Market Share

4.5.1 China Based Temperature Sensor Modules Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Temperature Sensor Modules Production Value (2021-2026)

4.5.3 China Based Manufacturers Temperature Sensor Modules Production (2021-2026)

4.6 Rest of World Based Temperature Sensor Modules Manufacturers and Market Share, 2021-2026

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

4.6.2 Rest of World Based Manufacturers Temperature Sensor Modules Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Temperature Sensor Modules Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Temperature Sensor Modules Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 General Temperature Sensor

5.2.2 Humidity and Temperature Sensor

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Temperature Sensor Modules Production by Type (2021-2032)

5.3.2 World Temperature Sensor Modules Production Value by Type (2021-2032)

5.3.3 World Temperature Sensor Modules Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PHYSICAL MEASUREMENT PRINCIPLE

6.1 World Temperature Sensor Modules Market Size Overview by Physical measurement principle: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Physical measurement principle

6.2.1 Thermocouple

6.2.2 RTD (Resistance Temperature Detector)

6.2.3 Thermistor

6.2.4 Infrared Temperature Sensor

6.3 Market Segment by Physical measurement principle

6.3.1 World Temperature Sensor Modules Production by Physical measurement principle (2021-2032)

6.3.2 World Temperature Sensor Modules Production Value by Physical measurement principle (2021-2032)

6.3.3 World Temperature Sensor Modules Average Price by Physical measurement principle (2021-2032)

7 MARKET ANALYSIS BY OUTPUT SIGNAL TYPE

7.1 World Temperature Sensor Modules Market Size Overview by Output signal type: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Output signal type

7.2.1 Analog Output Sensor

7.2.2 Digital Output Sensor

7.2.3 Pulse/Frequency Output Sensor

7.2.4 Wireless/Bluetooth Output Sensor

7.3 Market Segment by Output signal type

7.3.1 World Temperature Sensor Modules Production by Output signal type (2021-2032)

7.3.2 World Temperature Sensor Modules Production Value by Output signal type (2021-2032)

7.3.3 World Temperature Sensor Modules Average Price by Output signal type (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Temperature Sensor Modules Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive

8.2.2 Consumer Electronics

8.2.3 Home Appliance

8.2.4 Industrial

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Temperature Sensor Modules Production by Application (2021-2032)

8.3.2 World Temperature Sensor Modules Production Value by Application (2021-2032)

8.3.3 World Temperature Sensor Modules Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 TE Connectivity

9.1.1 TE Connectivity Details

9.1.2 TE Connectivity Major Business

9.1.3 TE Connectivity Temperature Sensor Modules Product and Services

9.1.4 TE Connectivity Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 TE Connectivity Recent Developments/Updates

9.1.6 TE Connectivity Competitive Strengths & Weaknesses

9.2 Schneider Electric

9.2.1 Schneider Electric Details

9.2.2 Schneider Electric Major Business

9.2.3 Schneider Electric Temperature Sensor Modules Product and Services

9.2.4 Schneider Electric Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Schneider Electric Recent Developments/Updates

9.2.6 Schneider Electric Competitive Strengths & Weaknesses

9.3 Bosch

9.3.1 Bosch Details

9.3.2 Bosch Major Business

9.3.3 Bosch Temperature Sensor Modules Product and Services

9.3.4 Bosch Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Bosch Recent Developments/Updates

9.3.6 Bosch Competitive Strengths & Weaknesses

9.4 Amphenol Thermometrics

9.4.1 Amphenol Thermometrics Details

9.4.2 Amphenol Thermometrics Major Business

- 9.4.3 Amphenol Thermometrics Temperature Sensor Modules Product and Services
- 9.4.4 Amphenol Thermometrics Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Amphenol Thermometrics Recent Developments/Updates
- 9.4.6 Amphenol Thermometrics Competitive Strengths & Weaknesses
- 9.5 ROHM Co., Ltd.
 - 9.5.1 ROHM Co., Ltd. Details
 - 9.5.2 ROHM Co., Ltd. Major Business
 - 9.5.3 ROHM Co., Ltd. Temperature Sensor Modules Product and Services
 - 9.5.4 ROHM Co., Ltd. Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 ROHM Co., Ltd. Recent Developments/Updates
 - 9.5.6 ROHM Co., Ltd. Competitive Strengths & Weaknesses
- 9.6 Panasonic Industrial
 - 9.6.1 Panasonic Industrial Details
 - 9.6.2 Panasonic Industrial Major Business
 - 9.6.3 Panasonic Industrial Temperature Sensor Modules Product and Services
 - 9.6.4 Panasonic Industrial Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Panasonic Industrial Recent Developments/Updates
 - 9.6.6 Panasonic Industrial Competitive Strengths & Weaknesses
- 9.7 Phoenix Contact
 - 9.7.1 Phoenix Contact Details
 - 9.7.2 Phoenix Contact Major Business
 - 9.7.3 Phoenix Contact Temperature Sensor Modules Product and Services
 - 9.7.4 Phoenix Contact Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Phoenix Contact Recent Developments/Updates
 - 9.7.6 Phoenix Contact Competitive Strengths & Weaknesses
- 9.8 Omron
 - 9.8.1 Omron Details
 - 9.8.2 Omron Major Business
 - 9.8.3 Omron Temperature Sensor Modules Product and Services
 - 9.8.4 Omron Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Omron Recent Developments/Updates
 - 9.8.6 Omron Competitive Strengths & Weaknesses
- 9.9 Honeywell Sensing
 - 9.9.1 Honeywell Sensing Details

- 9.9.2 Honeywell Sensing Major Business
- 9.9.3 Honeywell Sensing Temperature Sensor Modules Product and Services
- 9.9.4 Honeywell Sensing Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 Honeywell Sensing Recent Developments/Updates
- 9.9.6 Honeywell Sensing Competitive Strengths & Weaknesses
- 9.10 Sensirion
 - 9.10.1 Sensirion Details
 - 9.10.2 Sensirion Major Business
 - 9.10.3 Sensirion Temperature Sensor Modules Product and Services
 - 9.10.4 Sensirion Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Sensirion Recent Developments/Updates
 - 9.10.6 Sensirion Competitive Strengths & Weaknesses
- 9.11 Texas Instruments
 - 9.11.1 Texas Instruments Details
 - 9.11.2 Texas Instruments Major Business
 - 9.11.3 Texas Instruments Temperature Sensor Modules Product and Services
 - 9.11.4 Texas Instruments Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Texas Instruments Recent Developments/Updates
 - 9.11.6 Texas Instruments Competitive Strengths & Weaknesses
- 9.12 STMicroelectronics
 - 9.12.1 STMicroelectronics Details
 - 9.12.2 STMicroelectronics Major Business
 - 9.12.3 STMicroelectronics Temperature Sensor Modules Product and Services
 - 9.12.4 STMicroelectronics Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 STMicroelectronics Recent Developments/Updates
 - 9.12.6 STMicroelectronics Competitive Strengths & Weaknesses
- 9.13 Analog Devices
 - 9.13.1 Analog Devices Details
 - 9.13.2 Analog Devices Major Business
 - 9.13.3 Analog Devices Temperature Sensor Modules Product and Services
 - 9.13.4 Analog Devices Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Analog Devices Recent Developments/Updates
 - 9.13.6 Analog Devices Competitive Strengths & Weaknesses
- 9.14 Infineon Technologies

- 9.14.1 Infineon Technologies Details
- 9.14.2 Infineon Technologies Major Business
- 9.14.3 Infineon Technologies Temperature Sensor Modules Product and Services
- 9.14.4 Infineon Technologies Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.14.5 Infineon Technologies Recent Developments/Updates
- 9.14.6 Infineon Technologies Competitive Strengths & Weaknesses
- 9.15 NXP Semiconductors
 - 9.15.1 NXP Semiconductors Details
 - 9.15.2 NXP Semiconductors Major Business
 - 9.15.3 NXP Semiconductors Temperature Sensor Modules Product and Services
 - 9.15.4 NXP Semiconductors Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 NXP Semiconductors Recent Developments/Updates
 - 9.15.6 NXP Semiconductors Competitive Strengths & Weaknesses
- 9.16 Sensata Technologies
 - 9.16.1 Sensata Technologies Details
 - 9.16.2 Sensata Technologies Major Business
 - 9.16.3 Sensata Technologies Temperature Sensor Modules Product and Services
 - 9.16.4 Sensata Technologies Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Sensata Technologies Recent Developments/Updates
 - 9.16.6 Sensata Technologies Competitive Strengths & Weaknesses
- 9.17 Jingpu Sensor Co., Ltd.
 - 9.17.1 Jingpu Sensor Co., Ltd. Details
 - 9.17.2 Jingpu Sensor Co., Ltd. Major Business
 - 9.17.3 Jingpu Sensor Co., Ltd. Temperature Sensor Modules Product and Services
 - 9.17.4 Jingpu Sensor Co., Ltd. Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Jingpu Sensor Co., Ltd. Recent Developments/Updates
 - 9.17.6 Jingpu Sensor Co., Ltd. Competitive Strengths & Weaknesses
- 9.18 Star Sensor Technology Co., Ltd.
 - 9.18.1 Star Sensor Technology Co., Ltd. Details
 - 9.18.2 Star Sensor Technology Co., Ltd. Major Business
 - 9.18.3 Star Sensor Technology Co., Ltd. Temperature Sensor Modules Product and Services
 - 9.18.4 Star Sensor Technology Co., Ltd. Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Star Sensor Technology Co., Ltd. Recent Developments/Updates

- 9.18.6 Star Sensor Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.19 BDRTD Co., Ltd.
 - 9.19.1 BDRTD Co., Ltd. Details
 - 9.19.2 BDRTD Co., Ltd. Major Business
 - 9.19.3 BDRTD Co., Ltd. Temperature Sensor Modules Product and Services
 - 9.19.4 BDRTD Co., Ltd. Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 BDRTD Co., Ltd. Recent Developments/Updates
 - 9.19.6 BDRTD Co., Ltd. Competitive Strengths & Weaknesses
- 9.20 Wuxi ZC Sensor Technology Co., Ltd.
 - 9.20.1 Wuxi ZC Sensor Technology Co., Ltd. Details
 - 9.20.2 Wuxi ZC Sensor Technology Co., Ltd. Major Business
 - 9.20.3 Wuxi ZC Sensor Technology Co., Ltd. Temperature Sensor Modules Product and Services
 - 9.20.4 Wuxi ZC Sensor Technology Co., Ltd. Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 Wuxi ZC Sensor Technology Co., Ltd. Recent Developments/Updates
 - 9.20.6 Wuxi ZC Sensor Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.21 Beijing Kunlun Zhongda Sensor Technology Co., Ltd.
 - 9.21.1 Beijing Kunlun Zhongda Sensor Technology Co., Ltd. Details
 - 9.21.2 Beijing Kunlun Zhongda Sensor Technology Co., Ltd. Major Business
 - 9.21.3 Beijing Kunlun Zhongda Sensor Technology Co., Ltd. Temperature Sensor Modules Product and Services
 - 9.21.4 Beijing Kunlun Zhongda Sensor Technology Co., Ltd. Temperature Sensor Modules Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.21.5 Beijing Kunlun Zhongda Sensor Technology Co., Ltd. Recent Developments/Updates
 - 9.21.6 Beijing Kunlun Zhongda Sensor Technology Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Temperature Sensor Modules Industry Chain
- 10.2 Temperature Sensor Modules Upstream Analysis
 - 10.2.1 Temperature Sensor Modules Core Raw Materials
 - 10.2.2 Main Manufacturers of Temperature Sensor Modules Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Temperature Sensor Modules Production Mode

10.6 Temperature Sensor Modules Procurement Model

10.7 Temperature Sensor Modules Industry Sales Model and Sales Channels

10.7.1 Temperature Sensor Modules Sales Model

10.7.2 Temperature Sensor Modules 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 Temperature Sensor Modules Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Temperature Sensor Modules Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Temperature Sensor Modules Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Temperature Sensor Modules Production Value Market Share by Region (2021-2026)
- Table 5. World Temperature Sensor Modules Production Value Market Share by Region (2027-2032)
- Table 6. World Temperature Sensor Modules Production by Region (2021-2026) & (K Units)
- Table 7. World Temperature Sensor Modules Production by Region (2027-2032) & (K Units)
- Table 8. World Temperature Sensor Modules Production Market Share by Region (2021-2026)
- Table 9. World Temperature Sensor Modules Production Market Share by Region (2027-2032)
- Table 10. World Temperature Sensor Modules Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Temperature Sensor Modules Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Temperature Sensor Modules Major Market Trends
- Table 13. World Temperature Sensor Modules Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Temperature Sensor Modules Consumption by Region (2021-2026) & (K Units)
- Table 15. World Temperature Sensor Modules Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Temperature Sensor Modules Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Temperature Sensor Modules Producers in 2025
- Table 18. World Temperature Sensor Modules Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Temperature Sensor Modules Producers in 2025

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

Table 21. Global Temperature Sensor Modules Company Evaluation Quadrant

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

Table 23. Head Office and Temperature Sensor Modules Production Site of Key Manufacturer

Table 24. Temperature Sensor Modules Market: Company Product Type Footprint

Table 25. Temperature Sensor Modules Market: Company Product Application Footprint

Table 26. Temperature Sensor Modules Competitive Factors

Table 27. Temperature Sensor Modules New Entrant and Capacity Expansion Plans

Table 28. Temperature Sensor Modules Mergers & Acquisitions Activity

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

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

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

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

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

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

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

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

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

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

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

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

Table 41. China Based Manufacturers Temperature Sensor Modules Production Market

Share (2021-2026)

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

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

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

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

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

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

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

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

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

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

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

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

Table 54. World Temperature Sensor Modules Production Value by Physical measurement principle, (USD Million), 2021 & 2025 & 2032

Table 55. World Temperature Sensor Modules Production by Physical measurement principle (2021-2026) & (K Units)

Table 56. World Temperature Sensor Modules Production by Physical measurement principle (2027-2032) & (K Units)

Table 57. World Temperature Sensor Modules Production Value by Physical measurement principle (2021-2026) & (USD Million)

Table 58. World Temperature Sensor Modules Production Value by Physical measurement principle (2027-2032) & (USD Million)

Table 59. World Temperature Sensor Modules Average Price by Physical measurement principle (2021-2026) & (US\$/Unit)

Table 60. World Temperature Sensor Modules Average Price by Physical measurement principle (2027-2032) & (US\$/Unit)

- Table 61. World Temperature Sensor Modules Production Value by Output signal type, (USD Million), 2021 & 2025 & 2032
- Table 62. World Temperature Sensor Modules Production by Output signal type (2021-2026) & (K Units)
- Table 63. World Temperature Sensor Modules Production by Output signal type (2027-2032) & (K Units)
- Table 64. World Temperature Sensor Modules Production Value by Output signal type (2021-2026) & (USD Million)
- Table 65. World Temperature Sensor Modules Production Value by Output signal type (2027-2032) & (USD Million)
- Table 66. World Temperature Sensor Modules Average Price by Output signal type (2021-2026) & (US\$/Unit)
- Table 67. World Temperature Sensor Modules Average Price by Output signal type (2027-2032) & (US\$/Unit)
- Table 68. World Temperature Sensor Modules Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World Temperature Sensor Modules Production by Application (2021-2026) & (K Units)
- Table 70. World Temperature Sensor Modules Production by Application (2027-2032) & (K Units)
- Table 71. World Temperature Sensor Modules Production Value by Application (2021-2026) & (USD Million)
- Table 72. World Temperature Sensor Modules Production Value by Application (2027-2032) & (USD Million)
- Table 73. World Temperature Sensor Modules Average Price by Application (2021-2026) & (US\$/Unit)
- Table 74. World Temperature Sensor Modules Average Price by Application (2027-2032) & (US\$/Unit)
- Table 75. TE Connectivity Basic Information, Manufacturing Base and Competitors
- Table 76. TE Connectivity Major Business
- Table 77. TE Connectivity Temperature Sensor Modules Product and Services
- Table 78. TE Connectivity Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. TE Connectivity Recent Developments/Updates
- Table 80. TE Connectivity Competitive Strengths & Weaknesses
- Table 81. Schneider Electric Basic Information, Manufacturing Base and Competitors
- Table 82. Schneider Electric Major Business
- Table 83. Schneider Electric Temperature Sensor Modules Product and Services

Table 84. Schneider Electric Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Schneider Electric Recent Developments/Updates

Table 86. Schneider Electric Competitive Strengths & Weaknesses

Table 87. Bosch Basic Information, Manufacturing Base and Competitors

Table 88. Bosch Major Business

Table 89. Bosch Temperature Sensor Modules Product and Services

Table 90. Bosch Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Bosch Recent Developments/Updates

Table 92. Bosch Competitive Strengths & Weaknesses

Table 93. Amphenol Thermometrics Basic Information, Manufacturing Base and Competitors

Table 94. Amphenol Thermometrics Major Business

Table 95. Amphenol Thermometrics Temperature Sensor Modules Product and Services

Table 96. Amphenol Thermometrics Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Amphenol Thermometrics Recent Developments/Updates

Table 98. Amphenol Thermometrics Competitive Strengths & Weaknesses

Table 99. ROHM Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 100. ROHM Co., Ltd. Major Business

Table 101. ROHM Co., Ltd. Temperature Sensor Modules Product and Services

Table 102. ROHM Co., Ltd. Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. ROHM Co., Ltd. Recent Developments/Updates

Table 104. ROHM Co., Ltd. Competitive Strengths & Weaknesses

Table 105. Panasonic Industrial Basic Information, Manufacturing Base and Competitors

Table 106. Panasonic Industrial Major Business

Table 107. Panasonic Industrial Temperature Sensor Modules Product and Services

Table 108. Panasonic Industrial Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Panasonic Industrial Recent Developments/Updates

Table 110. Panasonic Industrial Competitive Strengths & Weaknesses

Table 111. Phoenix Contact Basic Information, Manufacturing Base and Competitors

Table 112. Phoenix Contact Major Business

Table 113. Phoenix Contact Temperature Sensor Modules Product and Services

Table 114. Phoenix Contact Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Phoenix Contact Recent Developments/Updates

Table 116. Phoenix Contact Competitive Strengths & Weaknesses

Table 117. Omron Basic Information, Manufacturing Base and Competitors

Table 118. Omron Major Business

Table 119. Omron Temperature Sensor Modules Product and Services

Table 120. Omron Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Omron Recent Developments/Updates

Table 122. Omron Competitive Strengths & Weaknesses

Table 123. Honeywell Sensing Basic Information, Manufacturing Base and Competitors

Table 124. Honeywell Sensing Major Business

Table 125. Honeywell Sensing Temperature Sensor Modules Product and Services

Table 126. Honeywell Sensing Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Honeywell Sensing Recent Developments/Updates

Table 128. Honeywell Sensing Competitive Strengths & Weaknesses

Table 129. Sensirion Basic Information, Manufacturing Base and Competitors

Table 130. Sensirion Major Business

Table 131. Sensirion Temperature Sensor Modules Product and Services

Table 132. Sensirion Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Sensirion Recent Developments/Updates

Table 134. Sensirion Competitive Strengths & Weaknesses

Table 135. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 136. Texas Instruments Major Business

Table 137. Texas Instruments Temperature Sensor Modules Product and Services

Table 138. Texas Instruments Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Texas Instruments Recent Developments/Updates

Table 140. Texas Instruments Competitive Strengths & Weaknesses

Table 141. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 142. STMicroelectronics Major Business

Table 143. STMicroelectronics Temperature Sensor Modules Product and Services

Table 144. STMicroelectronics Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. STMicroelectronics Recent Developments/Updates

Table 146. STMicroelectronics Competitive Strengths & Weaknesses

Table 147. Analog Devices Basic Information, Manufacturing Base and Competitors

Table 148. Analog Devices Major Business

Table 149. Analog Devices Temperature Sensor Modules Product and Services

Table 150. Analog Devices Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Analog Devices Recent Developments/Updates

Table 152. Analog Devices Competitive Strengths & Weaknesses

Table 153. Infineon Technologies Basic Information, Manufacturing Base and Competitors

Table 154. Infineon Technologies Major Business

Table 155. Infineon Technologies Temperature Sensor Modules Product and Services

Table 156. Infineon Technologies Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Infineon Technologies Recent Developments/Updates

Table 158. Infineon Technologies Competitive Strengths & Weaknesses

Table 159. NXP Semiconductors Basic Information, Manufacturing Base and Competitors

Table 160. NXP Semiconductors Major Business

Table 161. NXP Semiconductors Temperature Sensor Modules Product and Services

Table 162. NXP Semiconductors Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. NXP Semiconductors Recent Developments/Updates

Table 164. NXP Semiconductors Competitive Strengths & Weaknesses

Table 165. Sensata Technologies Basic Information, Manufacturing Base and Competitors

Table 166. Sensata Technologies Major Business

Table 167. Sensata Technologies Temperature Sensor Modules Product and Services

Table 168. Sensata Technologies Temperature Sensor Modules Production (K Units),

Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Sensata Technologies Recent Developments/Updates

Table 170. Sensata Technologies Competitive Strengths & Weaknesses

Table 171. Jingpu Sensor Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 172. Jingpu Sensor Co., Ltd. Major Business

Table 173. Jingpu Sensor Co., Ltd. Temperature Sensor Modules Product and Services

Table 174. Jingpu Sensor Co., Ltd. Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Jingpu Sensor Co., Ltd. Recent Developments/Updates

Table 176. Jingpu Sensor Co., Ltd. Competitive Strengths & Weaknesses

Table 177. Star Sensor Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 178. Star Sensor Technology Co., Ltd. Major Business

Table 179. Star Sensor Technology Co., Ltd. Temperature Sensor Modules Product and Services

Table 180. Star Sensor Technology Co., Ltd. Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Star Sensor Technology Co., Ltd. Recent Developments/Updates

Table 182. Star Sensor Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 183. BDRTD Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 184. BDRTD Co., Ltd. Major Business

Table 185. BDRTD Co., Ltd. Temperature Sensor Modules Product and Services

Table 186. BDRTD Co., Ltd. Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. BDRTD Co., Ltd. Recent Developments/Updates

Table 188. BDRTD Co., Ltd. Competitive Strengths & Weaknesses

Table 189. Wuxi ZC Sensor Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 190. Wuxi ZC Sensor Technology Co., Ltd. Major Business

Table 191. Wuxi ZC Sensor Technology Co., Ltd. Temperature Sensor Modules Product and Services

Table 192. Wuxi ZC Sensor Technology Co., Ltd. Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Wuxi ZC Sensor Technology Co., Ltd. Recent Developments/Updates

Table 194. Wuxi ZC Sensor Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 195. Beijing Kunlun Zhongda Sensor Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 196. Beijing Kunlun Zhongda Sensor Technology Co., Ltd. Major Business

Table 197. Beijing Kunlun Zhongda Sensor Technology Co., Ltd. Temperature Sensor Modules Product and Services

Table 198. Beijing Kunlun Zhongda Sensor Technology Co., Ltd. Temperature Sensor Modules Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Beijing Kunlun Zhongda Sensor Technology Co., Ltd. Recent Developments/Updates

Table 200. Beijing Kunlun Zhongda Sensor Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 201. Global Key Players of Temperature Sensor Modules Upstream (Raw Materials)

Table 202. Global Temperature Sensor Modules Typical Customers

Table 203. Temperature Sensor Modules Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Temperature Sensor Modules Picture

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

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

Figure 4. World Temperature Sensor Modules Production (2021-2032) & (K Units)

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

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

Figure 7. World Temperature Sensor Modules Production Market Share by Region (2021-2032)

Figure 8. North America Temperature Sensor Modules Production (2021-2032) & (K Units)

Figure 9. Europe Temperature Sensor Modules Production (2021-2032) & (K Units)

Figure 10. China Temperature Sensor Modules Production (2021-2032) & (K Units)

Figure 11. Japan Temperature Sensor Modules Production (2021-2032) & (K Units)

Figure 12. South Korea Temperature Sensor Modules Production (2021-2032) & (K Units)

Figure 13. China Taiwan Temperature Sensor Modules Production (2021-2032) & (K Units)

Figure 14. Temperature Sensor Modules Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Temperature Sensor Modules Consumption (2021-2032) & (K Units)

Figure 17. World Temperature Sensor Modules Consumption Market Share by Region (2021-2032)

Figure 18. United States Temperature Sensor Modules Consumption (2021-2032) & (K Units)

Figure 19. China Temperature Sensor Modules Consumption (2021-2032) & (K Units)

Figure 20. Europe Temperature Sensor Modules Consumption (2021-2032) & (K Units)

Figure 21. Japan Temperature Sensor Modules Consumption (2021-2032) & (K Units)

Figure 22. South Korea Temperature Sensor Modules Consumption (2021-2032) & (K Units)

Figure 23. ASEAN Temperature Sensor Modules Consumption (2021-2032) & (K Units)

Figure 24. India Temperature Sensor Modules Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of Temperature Sensor Modules by Manufacturer

Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Temperature Sensor Modules Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Temperature Sensor Modules Markets in 2025

Figure 28. United States VS China: Temperature Sensor Modules Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Temperature Sensor Modules Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Temperature Sensor Modules Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Temperature Sensor Modules Production Market Share 2025

Figure 32. China Based Manufacturers Temperature Sensor Modules Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Temperature Sensor Modules Production Market Share 2025

Figure 34. World Temperature Sensor Modules Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Temperature Sensor Modules Production Value Market Share by Type in 2025

Figure 36. General Temperature Sensor

Figure 37. Humidity and Temperature Sensor

Figure 38. Others

Figure 39. World Temperature Sensor Modules Production Market Share by Type (2021-2032)

Figure 40. World Temperature Sensor Modules Production Value Market Share by Type (2021-2032)

Figure 41. World Temperature Sensor Modules Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Temperature Sensor Modules Production Value by Physical measurement principle, (USD Million), 2021 & 2025 & 2032

Figure 43. World Temperature Sensor Modules Production Value Market Share by Physical measurement principle in 2025

Figure 44. Thermocouple

Figure 45. RTD (Resistance Temperature Detector)

Figure 46. Thermistor

Figure 47. Infrared Temperature Sensor

Figure 48. World Temperature Sensor Modules Production Market Share by Physical

measurement principle (2021-2032)

Figure 49. World Temperature Sensor Modules Production Value Market Share by Physical measurement principle (2021-2032)

Figure 50. World Temperature Sensor Modules Average Price by Physical measurement principle (2021-2032) & (US\$/Unit)

Figure 51. World Temperature Sensor Modules Production Value by Output signal type, (USD Million), 2021 & 2025 & 2032

Figure 52. World Temperature Sensor Modules Production Value Market Share by Output signal type in 2025

Figure 53. Analog Output Sensor

Figure 54. Digital Output Sensor

Figure 55. Pulse/Frequency Output Sensor

Figure 56. Wireless/Bluetooth Output Sensor

Figure 57. World Temperature Sensor Modules Production Market Share by Output signal type (2021-2032)

Figure 58. World Temperature Sensor Modules Production Value Market Share by Output signal type (2021-2032)

Figure 59. World Temperature Sensor Modules Average Price by Output signal type (2021-2032) & (US\$/Unit)

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

Figure 61. World Temperature Sensor Modules Production Value Market Share by Application in 2025

Figure 62. Automotive

Figure 63. Consumer Electronics

Figure 64. Home Appliance

Figure 65. Industrial

Figure 66. Others

Figure 67. World Temperature Sensor Modules Production Market Share by Application (2021-2032)

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

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

Figure 70. Temperature Sensor Modules Industry Chain

Figure 71. Temperature Sensor Modules Procurement Model

Figure 72. Temperature Sensor Modules Sales Model

Figure 73. Temperature Sensor Modules Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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