

Global Thin Film Platinum Resistance Temperature Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thin Film Platinum Resistance Temperature Sensor market size is expected to reach \$ 5070 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Thin film platinum resistance, also known as thin film platinum thermistor, is a temperature sensor element that changes its resistance value with temperature, thereby monitoring the ambient temperature in real-time. The production technology of thin film platinum thermistors is a new production process that replaces coils with film technology. It is composed of a platinum film with micrometer thickness and its attached substrate, and the temperature measurement range can reach -50-600 °C. Thin-film platinum resistance temperature sensors are temperature sensors manufactured using thin-film technology. They are typically used in the following industries: heating engineering, air conditioning technology, ventilation technology, industrial technology, medical and laboratory engineering, white goods, mechanical engineering as well as automotive and commercial vehicles. Sensors are available as Pt100, Pt500, Pt1000. In 2025, the global production of Thin Film Platinum Resistance Temperature Sensors is estimated at approximately 1.466 billion units, with an average price of approximately US\$2.21 per unit and a gross profit margin of approximately 30%.

The thin film platinum resistance temperature sensor market is at a critical stage of accelerated replacement of traditional wire-wound RTDs with thin-film structures. The core driving forces are industrial automation upgrades, the increasing complexity of thermal management systems in new energy vehicles, and the growing demand for high-consistency temperature measurement in high-end manufacturing equipment. Compared to wire-wound structures, thin-film RTDs have significant advantages in

batch manufacturing consistency, cost control, and miniaturization integration capabilities, leading to a continuous increase in their penetration rate in industrial process control and a gradual expansion into high-end fields such as automotive battery thermal management, semiconductor equipment temperature control, and medical precision measurement.

From an industry structure perspective, the global market is still dominated by European, American, and Japanese companies supplying high-end thin-film RTD components. However, China has achieved large-scale breakthroughs in low-to-mid-end and some mid-to-high-end applications. Key companies are rapidly increasing production capacity and consistency control capabilities through the construction of automated production lines, accelerating the process of domestic substitution. Overall, the market has moved from the early stage of structural replacement to a stage of parallel 'capacity expansion + application upgrade,' with the industry's growth focus shifting from single industrial scenarios to high-reliability and high-value-added application areas.

This report studies the global Thin Film Platinum Resistance Temperature Sensor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Thin Film Platinum Resistance Temperature Sensor total production and demand, 2021-2032, (K Units)

Global Thin Film Platinum Resistance Temperature Sensor total production value, 2021-2032, (USD Million)

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

Global Thin Film Platinum Resistance Temperature Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Thin Film Platinum Resistance Temperature Sensor domestic production, consumption, key domestic manufacturers and share

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

Global Thin Film Platinum Resistance Temperature Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Thin Film Platinum Resistance Temperature Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Thin Film Platinum Resistance Temperature 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 YAGEO Nexensos, Heraeus, IST AG, HAYASHI DENKO, UST Umweltsensortechnik GmbH, Vishay Intertechnology, Inc., KOA Speer Electronics, JUMO GmbH & Co. KG, TE Connectivity, Littelfuse, 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 Thin Film Platinum Resistance Temperature 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 Thin Film Platinum Resistance Temperature Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thin Film Platinum Resistance Temperature Sensor Market, Segmentation by Type:

PT100

PT500

PT1000

Others

Global Thin Film Platinum Resistance Temperature Sensor Market, Segmentation by Accuracy Class:

Class A

Class B

Others

Global Thin Film Platinum Resistance Temperature Sensor Market, Segmentation by Insulating Substrate:

Ceramic substrate RTD

Glass substrate RTD

Global Thin Film Platinum Resistance Temperature Sensor Market, Segmentation by Application:

Industrial Electronics

Household Appliances

Automotive Electronics

Consumer Electronics

Medical Electronics

Others

Companies Profiled:

YAGEO Nexensos

Heraeus

IST AG

HAYASHI DENKO

UST Umweltsensortechnik GmbH

Vishay Intertechnology, Inc.

KOA Speer Electronics

JUMO GmbH & Co. KG

TE Connectivity

Littelfuse

OMEGA

Hanwei Electronics Group Corporation (CST Technology)

Senba Sensing Technology Co., Ltd.

Anhui Higasket Plastics Co., Ltd.

Shanghai Boyuan Microelectronics Co., Ltd.

Key Questions Answered:

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

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