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Global Temperature Sensor for Space Market Growth 2026-2032

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Abstracts

The global Temperature Sensor for Space market size is predicted to grow from US$ 111 million in 2025 to US$ 183 million in 2032; it is expected to grow at a CAGR of 7.5% from 2026 to 2032.

A temperature sensor for space is a highly specialized device designed to measure thermal conditions in the extreme environments encountered during space missions, where temperatures can range from cryogenic lows to intense heat depending on solar exposure. These sensors—often thermocouples, resistance temperature detectors (RTDs), or radiation-hardened semiconductor sensors—are engineered for high accuracy, vacuum compatibility, and resilience against radiation, thermal cycling, and mechanical vibration. They are used across spacecraft systems, satellites, propulsion units, scientific instruments, and planetary landers to ensure reliable thermal monitoring for control, safety, and mission performance in harsh space conditions.

In 2024, global temperature sensor for space production reached approximately 65.16 k units, with an average global market price of around US$ 1639 per unit. And global temperature sensor for space production capacity reached approximately 79 k units. The average gross margin in this industry reached 53.83%.

The upstream segment of space-grade temperature sensors mainly includes high-performance materials, sensing elements, and precision manufacturing processes. Key materials involve platinum wires, high-purity nickel alloys, ceramic substrates, aerospace-grade insulation, and specialty optical fibers. Core components include platinum RTD elements, thermocouple wires, semiconductor temperature-sensing chips, and fiber-optic sensing elements. Manufacturing requires precision welding, micro-encapsulation, radiation-hardening techniques, and vacuum-reliability processing.

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Representative upstream suppliers include Heraeus (platinum materials and RTD elements), CoorsTek (advanced ceramics), and Corning (specialty optical fibers).

The downstream market is composed of spacecraft manufacturers, propulsion system integrators, and scientific mission institutions. Space temperature sensors are widely applied in satellite thermal control systems, propulsion tank and line temperature monitoring, battery and power module thermal protection, and scientific payload instruments. These applications require strict compliance with aerospace standards, including radiation resistance, vibration endurance, and long-term vacuum stability. Typical downstream users include NASA/JPL, Airbus Defence and Space, and China Academy of Space Technology (CAST), which integrate sensors based on mission-specific thermal management requirements and environmental constraints.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Temperature Sensor for Space Industry Forecast” looks at past sales and reviews total world Temperature Sensor for Space sales in 2025, providing a comprehensive analysis by region and market sector of projected Temperature Sensor for Space sales for 2026 through 2032. With Temperature Sensor for Space sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Temperature Sensor for Space industry.

This Insight Report provides a comprehensive analysis of the global Temperature Sensor for Space landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Temperature Sensor for Space portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Temperature Sensor for Space market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Temperature Sensor for Space and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Temperature Sensor for Space.

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This report presents a comprehensive overview, market shares, and growth opportunities of Temperature Sensor for Space market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Thermistor

Resistance Temperature Detector

Others

Segmentation by Minim Degree:

Minim Degree above -100 ?

Minim Degree between -200 and -100 ?

Minim Degree below -200 ?

Segmentation by Maximum Degree:

Maximum Degree above 300 ?

Maximum Degree between 100 and 300 ?

Maximum Degree below 100 ?

Segmentation by Application:

Spacecraft Systems

Satellites

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Propulsion Units

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

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Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Antrix Corporation

Collins Aerospace

Honeywell Aerospace

Innovative Sensor Technology

Measurement Specialities

QTI Sensing Solutions

Renesas

Scientific Instruments

Sensata Technologies

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TE Connectivity

Variohm Eurosensor

Mitsubishi Heavy Industries

Key Questions Addressed in this Report

What is the 10-year outlook for the global Temperature Sensor for Space market?

What factors are driving Temperature Sensor for Space market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Temperature Sensor for Space market opportunities vary by end market size?

How does Temperature Sensor for Space break out by Type, by Application?

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