

# **Temperature Sensor Market Size and Forecast (2020 - 2030), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Thermocouple, Resistance Temperature Detectors (RTDs), Thermistor, Infrared, and Others), Connectivity (Wired and Wireless), and End User (Semiconductor Manufacturing, Healthcare and Pharma, Food and Beverages, Data Center, Aerospace, Energy and Utilities, and Others)**

<https://marketpublishers.com/r/TBF783EA8B36EN.html>

Date: March 2024

Pages: 268

Price: US\$ 5,190.00 (Single User License)

ID: TBF783EA8B36EN

## **Abstracts**

The temperature sensor market size is expected to reach from US\$ 6.01 billion in 2022 and is expected to reach US\$ 9.66 billion by 2030; it is estimated to record a CAGR of 6.3% from 2023 to 2030 .

The Asia Pacific temperature sensor market is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. In terms of revenue, China dominated the APAC temperature sensor market share. The temperature sensor market in China is projected to expand at a significant rate in the near future due to ue to the rising initiatives taken by the government to expand semiconductor manufacturing. The increasing government initiatives in semiconductor manufacturing. According to the Center for Strategic & International Studies report, China, the world's largest consumer of semiconductors, accounted for a staggering 53.7% of global demand in 2020. China domestically produces ~16% of its semiconductor requirements. China launched several initiatives, including the National Integrated Circuit Industry Investment Fund (CICF), which is a state-backed fund supporting the development of the domestic chip industry. Temperature sensors play an important role in semiconductor manufacturing

processes, ensuring precise control and monitoring of temperatures at various stages. Therefore, with the increasing the rising government initiatives in to expand the semiconductor manufacturing, the demand industry are expected to positively influence the for temperature sensors is increasing in China, which fuels the temperature sensor market growth in the country.

Based on end user, the temperature sensor market is segmented into semiconductor manufacturing, aerospace, healthcare & pharma, food & beverages, energy & utility, data centers, and others. The semiconductor manufacturing is estimated to hold a significant temperature sensor market share by 2030. Temperature sensors play an important role in semiconductor manufacturing processes, ensuring precise control and monitoring of temperatures at various stages. During photolithography, where patterns are transferred onto semiconductor wafers, temperature control is crucial for ensuring accurate and repeatable results. Temperature sensors help maintain the optimal temperature for photoresist exposure and development. In thin film deposition processes such as chemical vapor deposition (CVD) and physical vapor deposition (PVD), temperature sensors are employed to control and monitor the substrate temperature. Consistent temperatures are essential for uniform film thickness. Also, semiconductor devices undergo testing at various temperatures to ensure functionality across a range of operating conditions. Temperature sensors within testing equipment maintain a controlled environment for accurate performance assessments. Temperature sensors are used in die-attach processes, where semiconductor chips are attached to substrates or packages. Controlling the temperature during this process ensures proper bonding and prevents damage to sensitive components. Thus, temperature sensors in semiconductor manufacturing contribute to precise control and monitoring at each stage of the process.

Temperature sensors in medical applications such as Polymerase Chain Reaction (PCR) thermal cyclers, Haemodialysis, and Sterilization of medical equipment demand and require reliable and accurate monitoring of critical temperature measurement. Temperature sensors help regulate and monitor the temperature of fluids in infusion systems, ensuring that medications and fluids administered to patients are at the correct temperature for optimal efficacy and safety. In devices such as ventilators, temperature sensors ensure that the air or oxygen delivered to patients is at an appropriate temperature, preventing discomfort and potential harm. Also, temperature sensors are used to monitor and maintain the required cold chain conditions during the storage and transportation of vaccines and other temperature-sensitive pharmaceuticals. Pharmaceuticals such as biologics and certain drugs are often sensitive to temperature variations. All these factors are boosting the need for temperature sensors, which drives

the temperature sensor market growth.

Texas Instruments Inc, Siemens AG, TE Connectivity Ltd, Amphenol Corp, Analog Devices Inc, Emerson Electric Co, Microchip Technology Inc, Panasonic Holdings Corp, Honeywell International Inc, and NXP Semiconductors NV are among the key players profiled in the temperature sensor market report. The temperature sensor market report also provides detailed market insights, which help the key players strategize their growth.

The overall temperature sensor market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the temperature sensor market analysis. The report includes growth prospects in light of current temperature sensor market trends and driving factors influencing the market growth. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the temperature sensor market.

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