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Asia Pacific Temperature Sensor Market Forecast to 2030 - Regional Analysis - by Type (Thermocouple, Resistance Temperature Detectors (RTD), Thermistor, Infrared, and Others), Connectivity (Wired and Wireless), and End Users (Semiconductor Manufacturing, Healthcare & Pharma, Food & Beverage, Data Center, Aerospace, Energy & Utilities, and Others)

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Abstracts

The Asia Pacific temperature sensor market was valued at US$ 2,141.05 million in 2023 and is expected to reach US$ 3,584.05 million by 2030; it is estimated to register a CAGR of 7.6% from 2023 to 2030.

Increasing number of Data Centers Boosts Asia Pacific Temperature Sensor Market

A growing number of data center construction activities worldwide is accelerating the market. For instance, in February 2023, the government of Maharashtra signed a memorandum of understanding (MoU) with UK-based Ark Data Centers and Japan's Nippon Telegraph and Telephone (NTT) for the construction of two new data centers in Pune. The MoU with NTT covers an investment of US$ 2.5 billion for the development of data centers in Pune, Mumbai, Thane, and Nagpur. This project generated the demand for temperature sensors for monitoring temperature ranges in the data center. Below mentioned are a few of the largest data center projects:

• In June 2023, IT infrastructure and services firm NTT invested ~US$ 350 million and launched a new hyperscale data center campus in Chennai. It also announced the

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arrival and linkage of its subsea cable system MIST with the new DC campus.
• In June 2023, PT ST Telemedia Global Data Centers (Indonesia) or PT STT GDC Indonesia, a leading data center provider, officially launched its first data center facility, STT Jakarta 1, in Bekasi, Jawa Barat. The data center campus will support up to 72 megawatts (MW) of critical IT capacity, with STT Jakarta 1 supporting up to 19.5 MW.
• In 2023, the Sydney-based CIMIC Group announced that Singapore's ST Telemedia Global Data Centres has granted its subsidiary Leighton Asia a contract to execute the first phase of the STT Fairview 1 data center development in Quezon City, Philippines.
• In 2023, a US$ 41.5 million data center development project in Johor has officially accepted the Letter of Initial Appointment (LOIA) from K2 Strategic Infrastructure Malaysia Sdn Bhd by Sunway Construction Sdn Bhd (SCSB).

Data centers are increasingly using temperature sensors to monitor key environments. A change in the data center’s temperature results in overheating and can cause downtime. The replacement of damaged equipment may incur huge expenses for the data center during downtime. For instance, according to the ASHRAE report of 2021, a data center requires a minimum of six temperature sensors per rack for monitoring the air inflow and exhaust temperatures. Similarly, high-density data centers most commonly use more than six temperature sensors per rack to measure more accurate temperature ranges, especially ambient temperature of 80°F. Thus, the growing number of data center construction activities has surged the demand for temperature sensors for measuring temperate ranges and overheating equipment.

Asia Pacific Temperature Sensor Market Overview

Several Asian industries, especially semiconductor manufacturing, automotive, consumer electronics, data centers, and energy, have created a rapid demand for temperature sensors over the years. According to the Asia Pacific Foundation, China and Taiwan have significantly boosted investments in chip manufacturing, with South Korea and Japan also looking to benefit. To make any chip, numerous processes such as deposition, photoresist, lithography, ionization, silicon wafer, and packaging plays an important role. Temperature sensors are used in these processes to measure and monitor the temperature, which is further boosting the market growth. Also, the Taiwan Semiconductor Manufacturing Company planned to set up its first factory in Japan, which aligned with the Japanese Prime Minister's agenda of prioritizing semiconductor manufacturing to expand domestic supply chains. Meanwhile, the South Korean government incentivized competition across several companies to invest in its semiconductor industry by providing tax benefits. As a result, in 2021, companies in Korea planned to invest around US$ 609 billion into their semiconductor industry.

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Temperature sensors are used widely in semiconductor manufacturing to maintain the optimal temperature at each stage of the process. Thus, the adoption of temperature sensors is increasing in the semiconductor manufacturing. Additionally, the expansion of the data center industry is driving the demand for temperature sensors in APAC. Various companies are launching new data centers in the region. For example, the flagship 20 MW greenfield data center, MAA10, was launched in January 2024 in Chennai, India, on a potential 100 MW campus. Additionally, Digital Connexion acquired another 2.15 acres of land in Mumbai, India, to expand its footprint with the planned construction of a 40 MW data center. Similarly, in December 2023, China started assembling the world's first underwater commercial data center off the coast of Sanya on Hainan Island. Also, Equinix announced that it is launching a new hyperscale data center site in Korea in Q1 2024. Temperature sensors are vital for maintaining a stable and controlled thermal environment, optimizing energy usage, preventing equipment failures, and ensuring overall reliability and efficiency in data centers. Thus, such an increasing number of data centers in the region will flourish the temperature sensor market growth in Asia Pacific. Furthermore, Asia Pacific is emerging as a key region in healthcare and pharma, attracting significant investments. According to MJH Life Sciences, China, Japan, and India are the largest healthcare and pharma markets in the region. China's healthcare industry is experiencing rapid growth, driven by rising incomes, increasing health awareness, and an aging population. It is also a priority sector for the Chinese government to address healthcare gaps and meet rising demand. Chinese firms are taking several initiatives to adopt temperature sensors for the healthcare industry. For instance, In January 2020, the Shanghai Public Health Clinical Center (SPHCC) used VivaLNK's continuous temperature sensor to monitor COVID-19 patients. Moreover, China's healthcare sector generated 10 trillion yuan in 2021. Moreover, the Healthy China 2030 initiative has precipitated an increase in demand for new technology to optimize healthcare delivery systems, including digitalization. Such growth in the healthcare and pharma sector in major markets of Asia Pacific will drive the temperature sensor market growth in the region.

Asia Pacific Temperature Sensor Market Revenue and Forecast to 2030 (US$ Million)

Asia Pacific Temperature Sensor Market Segmentation

The Asia Pacific temperature sensor market is categorized into type, connectivity, end user, and country.

Based on type, the Asia Pacific temperature sensor market is segmented into thermocouple, resistance temperature detectors (RTD), thermistor, infrared, and others.

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The thermocouple segment held the largest share of Asia Pacific temperature sensor market share in 2023.

In terms of connectivity, the Asia Pacific temperature sensor market is bifurcated into wired and wireless. The wired segment held a larger share of Asia Pacific temperature sensor market in 2023.

By end users, the Asia Pacific temperature sensor market is segmented into semiconductor manufacturing, healthcare & pharma, food and beverage, data center, aerospace, energy & utilities, and others. The semiconductor manufacturing segment held the largest share of Asia Pacific temperature sensor market in 2023.

By country, the Asia Pacific temperature sensor market is segmented into China, Japan, South Korea, India, Australia, and the Rest of Asia Pacific. China dominated the Asia Pacific temperature sensor market share in 2023.

Texas Instruments Inc.; Siemens Ltd.; TE Connectivity Ltd.; Amphenol LTW Ltd.; Analog Devices Inc.; Emerson Electric Co.; Microchip Technology Inc.; Panasonic Corporation; Honeywell International, Inc.; and NXP Semiconductors N.V are some of the leading companies operating in the Asia Pacific temperature sensor market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the Asia Pacific temperature sensor market.

Highlights key business priorities in order to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in the Asia Pacific temperature sensor market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth Asia Pacific market trends and outlook coupled with the factors driving the Asia Pacific temperature sensor market, as well as those

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hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution.

The List of Companies - Asia Pacific Temperature Sensor Market

Texas Instruments Inc.

Siemens Ltd.

TE Connectivity Ltd.

Amphenol LTW Ltd.

Analog Devices Inc.

Emerson Electric Co.

Microchip Technology Inc.

Panasonic Corporation

Honeywell International, Inc.

NXP Semiconductors N.V

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