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South & Central America 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 South & Central America temperature sensor market was valued at US$ 379.39 million in 2023 and is expected to reach US$ 468.78 million by 2030; it is estimated to register a CAGR of 3.1% from 2023 to 2030.

Evolution of Industry 4.0 Fuels South & Central America Temperature Sensor Market

The introduction of Industry 4.0 brings several advances in the efficiency and productivity of industrial processes. Several industries use temperature sensors for generating real-time data based on temperature variation. Industries use this data for process optimization, predictive maintenance, and quality control, which further leads to a reduction in downtime, creating opportunities in the market. Temperature sensors are deployed to monitor complex industrial instruments and machines for monitoring their temperature range to maintain operational efficiency. The evolution of Industry 4.0 encourages technological advancements in nations, which creates opportunities for market growth.

Temperature sensors are crucial for smart factories and Industry 4.0 for enabling

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advanced automation, smart manufacturing, and data-driven decision-making activities. Temperature sensors are essential for measuring the temperature of various components, including motors, engines, and machines in smart factories. Temperature sensor enables continuous monitoring, which allows smart factories to identify deviations or inefficiencies in the processes by allowing real-time adjustments to improve productivity and reduce energy consumption. Temperature sensors are primarily used in Industry 4.0 and smart manufacturing. It helps in detecting overheating and abnormal temperature in the machinery and equipment by ensuing efficient operations and automation within modern industrial facilities. Thus, the growth in the smart manufacturing process is creating opportunities in the market.

Rising investment in smart city projects and growing city management initiatives further generate opportunities for market growth. This data helps urban planners in the designing of green roofs, reflective pavement, and urban forests to combat rising temperatures, which is expected to create opportunities in the market during the forecast period.

South & Central America Temperature Sensor Market Overview

South America has been experiencing significant growth in its industrial and infrastructure sectors. Industries such as energy, oil & gas, and agriculture are prevalent in the region. South America is rich in natural resources such as oil, gas, minerals, and agriculture. According to the International Association of Oil & Gas Producers, the total energy supply in the region was 26,912,417 TJ in 2021. Industries involved in resource extraction often operate in challenging environments, such as offshore oil rigs or remote mining sites, where temperature sensors are necessary to ensure the temperature. Also, the wind energy industry is growing significantly in SAM. According to the Global Wind Energy Council, 3.7 GW of onshore wind was installed in the region in 2019, with 51% by Brazil and 13% by Argentina. In total, there was close to 26 GW of onshore wind installed in Latin America, of which 57% was in Brazil. Temperature sensors are vital in the oil & gas and energy sectors for ensuring the safety and efficiency of operations, monitoring critical equipment, and optimizing various processes involved in the exploration, production, and utilization of energy resources. Therefore, the temperature sensor market is growing in SAM.

South & Central America Temperature Sensor Market Revenue and Forecast to 2030 (US$ Million)

South & Central America Temperature Sensor Market Segmentation

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The South & Central America temperature sensor market is categorized into type, connectivity, end user, and country.

Based on type, the South & Central America temperature sensor market is segmented into thermocouple, resistance temperature detectors (RTD), thermistor, infrared, and others. The thermocouple segment held the largest share of South & Central America temperature sensor market share in 2023.

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

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

By country, the South & Central America temperature sensor market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America temperature sensor market share in 2023.

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

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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 South & Central America market trends and outlook coupled with the factors driving the South & Central America temperature sensor market, as well as those 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 - South & Central America 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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