

Middle East & Africa 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 Middle East & Africa temperature sensor market was valued at US\$ 561.73 million in 2023 and is expected to reach US\$ 735.15 million by 2030; it is estimated to register a CAGR of 3.9% from 2023 to 2030.

Growing Adoption Across Various Industries Bolsters Middle East & Africa Temperature Sensor Market

Temperature sensors are used for various purposes across industries such as semiconductor manufacturing, aerospace, healthcare & pharma, food & beverage, energy & utilities, and data centers for accurately and efficiently monitoring the temperatures of a particular object or environment. These sensors are used for calculating the temperature of a certain object or environment. Below mentioned are the uses and benefits provided by temperature sensors in numerous industries -

? Semiconductor Manufacturing – Temperature sensors are usually incorporated into integrated circuits (ICs), including microprocessors and microcontrollers. These ICs are widely used to manufacture laptops, tablets, desktop computers, mobile telephones,

and other electronic devices. Growing demand for high-performance microprocessors and microcontrollers among electronics manufacturers is driving the market. For instance, in December 2023, Microchip Technology Inc. launched the AVR EB Family of Microcontrollers (AVR EB MCUs), used to manufacture laptops, desktop computers, and other electronic devices. AVR EB MCUs are used to reduce noise, vibration, and system harness by adjusting timing, speed, and waveform shape in the semiconductor manufacturing process.

? Aerospace – Temperature sensors are essential for the aerospace industry for measuring the degree of hydraulic oils, fuel, and coolants. Resistance temperature detectors (RTD) and thermocouples are the two most common temperature sensors that can withstand extreme high-heat environments and are used to measure overeating of engines accurately. Companies such as Fluid Components LLC, Temp-Pro Inc., and AMETEK Inc. are engaged in developing high-performance temperature sensors for the aerospace industry. Healthcare & Pharma –

? Healthcare & pharma industries are increasingly using temperature sensors integrated within the machines and devices. Temperature sensors, such as thermistors, thermocouples, magnetic resonance imaging (MRI) equipment, resistance temperature detectors (RTDs), and portable ultrasound scanners, are used to perform a range of medical procedures and monitor patients. For instance, temperature sensors support thermometers in the quick and accurate measurement of a patient's health. They provide real-time data to medical staff to offer higher standards of service to patients. For instance, in September 2023, TriMedika Ltd launched TRITEMP non-contact thermometer for monitoring patient's foreheads. TRITEMP is integrated with an infrared sensor that detects infrared radiation emitted by a patient's forehead and converts it into an accurate reading for healthcare providers. Moreover, TRITEMP is a highly portable and versatile device that can be used in numerous healthcare settings, including hospitals, clinics, and home care.

? Other industries such as food & beverages, energy & utilities, data centers, oil & gas, mining, and automotive are also increasingly adopting temperature sensors for measuring the temperature of engines and machines. The growing use of temperature sensors helps industries measure temperature by tracking activities, which is propelling the market.

Middle East & Africa Temperature Sensor Market Overview

The Middle East and Africa (MEA) regional analysis of the temperature sensor market has been conducted by gathering insights from countries such as Saudi Arabia, the UAE, South Africa, and the Rest of MEA. As the energy and utility sector is growing, the demand for temperature sensors is also growing in the MEA. Energy industries are

experiencing significant growth in terms of investments due to the rising need for electricity generation. According to Renewables Global Status Report 2022, investments in renewables in the Middle East & Africa increased by 19% in 2021, reaching US\$ 12.8 billion. In addition, according to the International Energy Agency, the energy consumption in the region will grow 2% annually from 2023 to 2025. With an objective to meet the growing demand for electricity and to shift to renewable sources, the governments of the UAE, Saudi Arabia, and Qatar, among others, are seeking temperature sensors. Temperature sensors monitor the temperature of solar panels to optimize energy output. These sensors are used to monitor the temperature of critical components in wind turbines, such as gearboxes and generators, which helps prevent overheating and extends the lifespan of equipment. Also, the rising demand for oil and gas worldwide is increasing oil and gas exploration activities in the MEA. For example, Petroleum Development Oman (PDO) completed its 1,500th well at the Nimr cluster, a groundbreaking achievement in the Sultanate of Oman. Temperature sensors are widely used in the oil & gas industry to monitor wellbore temperature. Therefore, the demand for temperature sensors is increasing in the MEA, boosting market growth.

Middle East & Africa Temperature Sensor Market Revenue and Forecast to 2030 (US\$ Million)

Middle East & Africa Temperature Sensor Market Segmentation

The Middle East & Africa temperature sensor market is categorized into type, connectivity, end user, and country.

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

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

By end users, the Middle East & Africa 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 Middle East & Africa temperature sensor market in 2023.

By country, the Middle East & Africa temperature sensor market is segmented into the UAE, Saudi Arabia, South Africa, and the Rest of Middle East & Africa. The UAE dominated the Middle East & Africa 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 Middle East & Africa 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 Middle East & Africa 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 Middle East & Africa 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 Middle East & Africa market trends and outlook coupled with the factors driving the Middle East & Africa 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 - Middle East & Africa Temperature Sensor Market

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.

NXP Semiconductors N.V

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