

Temperature Sensors Market by Type (Thermistor, IC, RTD, Thermocouple, & Others), End User (Process Industry (Chemical, Oil & Gas, Power and Others) & Discrete Industry (Semiconductors, Automotive and Others)) and Geography - Global Forecast to 2022

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Abstracts

“The increasing demand for temperature sensors among industrial end users would drive the temperature sensors market”

The temperature sensors market is expected to grow from USD 5.13 billion in 2016 to USD 6.79 billion by 2022, at estimated CAGR of 4.8% between 2016 and 2022. The temperature sensors market is primarily driven by factors such as high demand for temperature sensors among industrial end users, growing concerns toward security and surveillance, robust demand for consumer electronics products, developing automotive industry in emerging markets, and government initiatives toward environment & safety norms.

“Thermocouple-based temperature sensors to gain maximum traction during the forecast period”

The market for thermocouple-based temperature sensors holds the largest share of this market. Furthermore, owing to the increasing demand for measuring and controlling sensors in industrial sectors on a global basis, temperature sensors devices are expected to gain traction and grow at a stable growth rate during the forecast period. The temperature sensors is expected to have a high demand from discrete industry end users such as semiconductors, automotive, and healthcare segment among others during the forecast period.

“North America expected to lead the global temperature sensors market during the forecast period (2016–2022)”

The North American market is expected to hold the major market share between 2016 and 2022 owing to the growing demand for smart homes and in-home weather stations in the U.S., rising usage of temperature sensor products by scientific research institutions for the study of environmental changes across North America, and the presence of major temperature sensors manufacturers in the region. The APAC market is expected to grow at the highest CAGR between 2016 and 2022.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews were conducted with key people. The break-up of the profiles of primary participants is given below:

By Company Type: Tier 1 – 42 %, Tier 2 – 20%, and Tier 3 – 38%

By Designation: C-Level – 35%, Director Level – 25%, Others – 40%

By Region: North America – 42%, Europe – 21%, APAC – 18%, RoW – 19%

The key temperature sensors vendors profiled in the report are:

1. Texas Instruments Incorporated (U.S.)
2. Analog Devices, Inc. (U.S.)
3. ABB Ltd. (Switzerland)
4. Honeywell International Inc. (U.S.)
5. Maxim Integrated Products Inc. (U.S.)
6. Siemens AG (Germany)
7. Danaher Corporation (U.S.)
8. Kongsberg Gruppen (Norway)
9. TE Connectivity Ltd. (U.S.)
10. Emerson Electric Company (U.S.)
11. Panasonic Corporation (Japan)
12. General Electric Company (U.S.)
13. STMicroelectronics N.V. (Switzerland)
14. Microchip Technology Incorporated (U.S.)
15. NXP Semiconductors N.V. (Netherlands)

The report would help the market leaders/new entrants in this market in the following ways:

1. This report segments the temperature sensors market comprehensively and provides the closest approximations of the revenue numbers for the overall market and the subsegments across the different verticals, segments, and regions.
2. The report would help stakeholders to understand the pulse of the market and provides them information on key market drivers, restraints, challenges, and opportunities.
3. This report would help stakeholders to better understand the competitor and gain more insights to enhance their position in the business.
4. The competitive landscape section includes competitor ecosystem, new product developments, partnerships, and mergers and acquisitions.
5. It helps to gain detailed understanding of the Porter's five forces analysis of the market. All the five major factors in these markets have been quantified using the internal key parameters governing each of them.

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About

Temperature sensors have a significant function across different industry verticals. The major applications of temperature sensors are in consumer electronics, power generation, automotive, petrochemical, aerospace and defense, healthcare, industrial, and utility segments. The industrial application of temperature sensor market holds the highest market share followed by its application in the petrochemical industry. In the automotive segment, the temperature sensors are helping improve passenger comfort, engine efficiency, and performance. The demand for reliable, high performance and low cost sensors is increasing leading to the development of new technologies such as the micro and nanotechnology which provide benefits of miniaturization, low power consumption, and mass production, among others. Temperature sensors such as infrared temperature sensors allow contactless and corrosion-free measurement of temperature. These devices have gained immense popularity in the food and beverage and chemical industries. The increasing applications of temperature sensors are driving the growth of this market.

On the basis of application, the temperature sensor market is classified into consumer electronics, power generation, automotive, petrochemicals, aerospace and defense, healthcare, industrial, utility, and others. In 2013, industrial applications accounted for a XX% share of the overall market for temperature sensors. The growing usage of security and surveillance in applications such as consumer electronics, automotive, and healthcare has fueled the demand for temperature sensors and other related products. Moreover, temperature sensors are also being used for higher end applications such as aerospace and defense along with, space exploration. In healthcare application, the use of temperature sensors has enabled the medical practitioners to continuously monitor the health status of their patients. Industrial application of temperature sensor products for both process and non-process industries constituted the prime reason for its largest market size, in 2013. Consumer electronics and automotive applications are considered to be the potential markets for investments by the key industry players, due to increasing application of sensors in these sectors.

The total market size of temperature sensors for North America in 2013 was valued at \$XX million and is growing at a CAGR of XX% between 2014 and 2020. The North American region, particularly the U.S. is home to some of the major temperature sensors manufacturers in the world such as Texas Instruments (U.S.), Honeywell Sensing and Control (U.S.), General Electric Measurement & Control (U.S.), Freescale Semiconductor, Inc. (U.S.), and Maxim Integrated (U.S.).

APAC region had the largest share of XX% of the temperature sensors market, in 2013. Compared to mature markets, the Asia-Pacific and RoW (Rest of the World) regions are expected to grow at the highest rate in the next five years, with CAGRs of XX% and XX%, respectively. The growth of the temperature sensor market in the Asia-Pacific region is propelled by various factors such as rising investments , steady growth in all sectors including automobiles (the region accounted for more than XX% of the world's passenger car production) and presence of major consumer electronics companies in the region.

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