

Temperature Sensor Market by Product Type (Contact Temperature Sensor, Non-Contact Temperature Sensor), Output (Analog, Digital), Connectivity (Wired, Wireless), End-user Industry (Consumer Electronics, Oil & Gas) and Region - Global Forecast to 2029

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Abstracts

The temperature sensor market is projected to grow from USD 7.4 billion in 2024 to USD 9.7 billion by 2029, registering a CAGR of 5.6% during the forecast period. Some of the major factors driving the growth of the temperature sensor market include the deployment of temperature sensors in space applications, increasing adoption of Industry 4.0 and IoT, and increasing penetration of temperature sensors in advanced & portable healthcare equipment. However, stringent performance requirements for advanced applications act as a challenge for the market in the future. The major growth opportunity for the market players is Supportive government initiatives & funding for IoT projects that require temperature sensors.

'Market for Consumer Electronics will have the highest CAGR during the forecast period.'

The consumer electronics segment of the temperature sensor market is expected to witness the highest CAGR during the forecast period. The use of temperature sensors in electrical and electronic applications has led to many significant changes in devices. For example, temperature sensor ICs report both local and remote temperatures, monitor the temperature of other onboard components, control fans, and warn when the temperature exceeds. Developments in temperature sensors have also promoted their use in portable devices, such as smartphones and tablets. Some of the prominent companies offering temperature sensors for the consumer electronics end-user industry include Sensirion (Switzerland), AMS AG (Austria), Amphenol (US), and Murata

(Japan).

'Wireless expected to register the highest CAGR during the forecast period.'

The temperature sensor market's wireless segment is expected to account for the highest CAGR in the forecast period. Wireless temperature sensors are advanced devices for monitoring temperature. Unlike traditional temperature sensors, wireless sensors do not require a physical connection and are fully embedded within the concrete. Industrial automation and the demand for miniaturized consumer devices, such as wearables and IoT-connected devices, across regions, are among the significant factors driving the market for wireless temperature sensors.

'North America to account for the second highest market share among other regions during the forecast period.'

In 2023, North America accounted for the second largest share of the temperature sensor market and is expected to maintain its position during the forecast period. The US, Canada, and Mexico are the major contributors to the growth of the temperature sensor market in North America. North America is one of the most technologically advanced regions and is a huge market for temperature sensors. The presence of prominent large semiconductor companies, system suppliers, and automotive manufacturers in the region induces high demand for temperature sensors. North America is a key region for the growth of the temperature sensor market in aerospace & defense, automotive, and consumer electronics end-user verticals.

In determining and verifying the market size for several segments and subsegments gathered through extensive secondary research, primary interviews have been conducted with key industry experts in the temperature sensor market.

The break-up of primary participants for the report has been shown below:

By company type: Tier 1 - 38%, Tier 2 - 28%, and Tier 3 - 34%

By designation: C-Level Executives - 40%, Managers - 30%, and Others - 30%

By region: North America - 35%, Europe - 20%, Asia Pacific - 35%, and RoW - 10%

The report profiles key players in the temperature sensor market with their respective market ranking analyses. Prominent players profiled in this report include Honeywell International Inc. (US), TE Connectivity (Switzerland), Texas Instruments Incorporated (US), Endress+Hauser Group Services AG (Switzerland), Siemens (Germany), Emerson Electric Co. (US), Analog Devices (US), Amphenol Corporation (US), WIKA Alexander Wiegand SE & Co. KG (Germany), and Microchip Technology Inc. (US) among others.

Research Coverage

This research report categorizes the temperature sensor market based on product type output, connectivity, end-user industry, and region. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the temperature sensor market and forecasts the same till 2029. The report also consists of leadership mapping and analysis of companies in the temperature sensor ecosystem.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall temperature sensor market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (increasing penetration of temperature sensors in advanced & portable healthcare equipment, growing demand for temperature sensors in the automotive sector, increasing adoption of industry 4.0 and IoT, and deployment of temperature sensors in space applications), restraints (high initial cost involved in advanced sensors), opportunities (increasing trend of wearable devices, rising inclusion of temperature control systems in food safety management, and supportive government initiatives & funding for IoT projects that require temperature sensors), and challenges (stringent performance requirements for advanced applications and continuous price reductions and intense competition among manufacturers) influencing the growth of the temperature sensor market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the temperature sensor market

Market Development: Comprehensive information about lucrative markets – the report analyses the temperature sensor market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the temperature sensor market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product/service offerings of leading players like Honeywell International Inc. (US), TE Connectivity (Switzerland), Texas Instruments Incorporated (US), Endress+Hauser Group Services AG (Switzerland), and Siemens (Germany) among others in the temperature sensor market

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.2.1 INCLUSIONS AND EXCLUSIONS

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 TEMPERATURE SENSOR MARKET SEGMENTATION

1.3.2 REGIONAL SCOPE

1.3.3 YEARS CONSIDERED

1.3.4 CURRENCY CONSIDERED

1.3.5 UNIT CONSIDERED

1.4 LIMITATIONS

1.5 STAKEHOLDERS

1.6 SUMMARY OF CHANGES

1.7 IMPACT OF RECESSION

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 TEMPERATURE SENSOR MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 List of major secondary sources

2.1.1.2 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary sources

2.1.2.2 Breakdown of primaries

2.1.2.3 Key industry insights

2.1.2.4 List of primary interview participants

2.1.3 SECONDARY AND PRIMARY RESEARCH

2.2 MARKET SIZE ESTIMATION METHODOLOGY

2.2.1 BOTTOM-UP APPROACH

2.2.1.1 Approach to derive market size using bottom-up approach (demand side)

FIGURE 3 TEMPERATURE SENSOR MARKET: BOTTOM-UP APPROACH

2.2.2 TOP-DOWN APPROACH

2.2.2.1 Approach to derive market size using top-down approach (supply side)

FIGURE 4 TEMPERATURE SENSOR MARKET SIZE ESTIMATION METHODOLOGY

FIGURE 5 TEMPERATURE SENSOR MARKET: TOP-DOWN APPROACH
2.3 MARKET BREAKDOWN AND DATA TRIANGULATION
FIGURE 6 TEMPERATURE SENSOR MARKET: DATA TRIANGULATION
2.4 RESEARCH ASSUMPTIONS
TABLE 1 TEMPERATURE SENSOR MARKET: RESEARCH ASSUMPTIONS
2.5 PARAMETERS CONSIDERED TO ANALYZE RECESSION IMPACT
2.6 RESEARCH LIMITATIONS
2.7 RISK ASSESSMENT

3 EXECUTIVE SUMMARY

FIGURE 7 CONTACT PRODUCT TYPE TO ACCOUNT FOR HIGHER MARKET SHARE IN 2024
FIGURE 8 DIGITAL OUTPUT TO EXHIBIT HIGHER CAGR IN TEMPERATURE SENSOR MARKET FROM 2024 TO 2029
FIGURE 9 WIRELESS CONNECTIVITY TO HOLD LARGER SHARE OF TEMPERATURE SENSOR MARKET IN 2024
FIGURE 10 CONSUMER ELECTRONICS INDUSTRY TO ACCOUNT FOR LARGEST MARKET SHARE IN 2029
FIGURE 11 ASIA PACIFIC HELD LARGEST SHARE OF TEMPERATURE SENSOR MARKET IN 2023

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN TEMPERATURE SENSOR MARKET
FIGURE 12 INCREASING DEMAND FOR PORTABLE HEALTHCARE EQUIPMENT TO FUEL TEMPERATURE SENSOR MARKET GROWTH
4.2 TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE
FIGURE 13 CONTACT PRODUCT TYPE TO ACCOUNT FOR LARGER MARKET SHARE IN 2029
4.3 TEMPERATURE SENSOR MARKET IN ASIA PACIFIC, BY END-USER INDUSTRY AND COUNTRY
FIGURE 14 CONSUMER ELECTRONICS AND CHINA HELD LARGEST SHARES OF ASIA PACIFIC TEMPERATURE SENSOR MARKET IN 2023
4.4 TEMPERATURE SENSOR MARKET, BY COUNTRY
FIGURE 15 CHINA TO DOMINATE TEMPERATURE SENSOR MARKET DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 16 TEMPERATURE SENSOR MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

FIGURE 17 TEMPERATURE SENSOR MARKET: DRIVERS AND THEIR IMPACT

5.2.1.1 Surging demand for portable health monitoring systems

5.2.1.2 Rising popularity of autonomous vehicles

FIGURE 18 AUTOMOTIVE SALES, BY VEHICLE TYPE, 2019–2022 (MILLION UNITS)

5.2.1.3 Escalating adoption of Industry 4.0 and IoT technologies

5.2.1.4 Increasing need for sensors to control spacecraft remotely

5.2.2 RESTRAINTS

FIGURE 19 TEMPERATURE SENSOR MARKET: RESTRAINTS AND THEIR IMPACT

5.2.2.1 Fluctuations in raw material costs

5.2.3 OPPORTUNITIES

FIGURE 20 TEMPERATURE SENSOR MARKET: OPPORTUNITIES AND THEIR IMPACT

5.2.3.1 Rising preference for wearable devices

FIGURE 21 WEARABLE DEVICE SHIPMENT, 2018 VS. 2022 (MILLION UNITS)

5.2.3.2 Increasing consumption of packaged foods

5.2.3.3 Mounting investment in IoT research projects

5.2.4 CHALLENGES

FIGURE 22 TEMPERATURE SENSOR MARKET: CHALLENGES AND THEIR IMPACT

5.2.4.1 Stringent performance requirements for advanced applications

5.2.4.2 Intense price competition among manufacturers

5.3 VALUE CHAIN ANALYSIS

FIGURE 23 TEMPERATURE SENSOR MARKET: VALUE CHAIN ANALYSIS

5.4 ECOSYSTEM/MARKET MAP

TABLE 2 COMPANIES AND THEIR ROLES IN TEMPERATURE SENSOR ECOSYSTEM

5.5 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 24 TEMPERATURE SENSOR MARKET: TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

5.6 PRICING ANALYSIS

5.6.1 AVERAGE SELLING PRICE (ASP) TREND, BY PRODUCT TYPE (USD)

TABLE 3 AVERAGE SELLING PRICE TREND, BY PRODUCT TYPE (USD)

5.6.2 AVERAGE SELLING PRICE OF THERMISTORS OFFERED BY TWO KEY

PLAYERS (USD)

FIGURE 25 AVERAGE SELLING PRICE OF THERMISTORS OFFERED BY TWO KEY PLAYERS (USD)

TABLE 4 AVERAGE SELLING PRICE OF THERMISTORS OFFERED BY TWO KEY PLAYERS (USD)

FIGURE 26 AVERAGE SELLING PRICE OF TEMPERATURE SENSORS, 2019–2023 (USD)

5.7 TECHNOLOGY ANALYSIS

5.7.1 MEMS TEMPERATURE SENSORS

5.7.2 MINIATURE FIBER-OPTIC TEMPERATURE SENSORS

5.8 CASE STUDY ANALYSIS

5.8.1 PEAK SENSORS LTD DESIGNS TYPE B THERMOCOUPLES TO ADDRESS ISSUE OF CERAMIC COMPONENT FAILURE

5.8.2 PYROCONTROLE PROPOSES TEMPERATURE SENSOR ASSEMBLY USING IN-SITU CALIBRATION TECHNOLOGY

5.8.3 PEAK SENSORS LTD IMPROVES DOUBLE-PRESSURE CONTAINMENT TO EASE DEVELOPMENT OF NOVEL REACTION VESSELS

5.9 PATENT ANALYSIS

FIGURE 27 TEMPERATURE SENSOR MARKET: PATENTS APPLIED AND GRANTED, 2013–2023

TABLE 5 TEMPERATURE SENSOR MARKET: TOP 20 PATENT OWNERS IN LAST 10 YEARS

TABLE 6 TEMPERATURE SENSOR MARKET: LIST OF MAJOR PATENTS

5.10 TRADE ANALYSIS

FIGURE 28 IMPORT DATA FOR PRODUCTS COVERED UNDER HS CODE 902519, BY COUNTRY, 2018–2022 (USD THOUSAND)

FIGURE 29 EXPORT DATA FOR PRODUCTS COVERED UNDER HS CODE 902519, BY COUNTRY, 2018–2022 (USD THOUSAND)

5.11 TARIFF ANALYSIS

TABLE 7 MFN TARIFF FOR HS CODE 902519-COMPLIANT TEMPERATURE SENSORS EXPORTED BY US

TABLE 8 MFN TARIFF FOR HS CODE 902519-COMPLIANT TEMPERATURE SENSORS EXPORTED BY CHINA

5.12 KEY STAKEHOLDERS AND BUYING CRITERIA

5.12.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 30 TEMPERATURE SENSOR MARKET: INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 END-USER INDUSTRIES

TABLE 9 TEMPERATURE SENSOR MARKET: INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 END-USER INDUSTRIES (%)

5.12.2 BUYING CRITERIA

FIGURE 31 TEMPERATURE SENSOR MARKET: KEY BUYING CRITERIA FOR TOP 3 END-USER INDUSTRIES

TABLE 10 TEMPERATURE SENSOR MARKET: KEY BUYING CRITERIA FOR TOP 3 END-USER INDUSTRIES

5.13 PORTER'S FIVE FORCES ANALYSIS

FIGURE 32 TEMPERATURE SENSOR MARKET: PORTER'S FIVE FORCES ANALYSIS

TABLE 11 TEMPERATURE SENSOR MARKET: PORTER'S FIVE FORCES ANALYSIS

5.13.1 INTENSITY OF COMPETITIVE RIVALRY

5.13.2 THREAT OF SUBSTITUTES

5.13.3 BARGAINING POWER OF BUYERS

5.13.4 BARGAINING POWER OF SUPPLIERS

5.13.5 THREAT OF NEW ENTRANTS

5.14 KEY CONFERENCES AND EVENTS, 2024–2025

TABLE 12 TEMPERATURE SENSOR MARKET: LIST OF KEY CONFERENCES AND EVENTS, 2024–2025

5.15 REGULATORY LANDSCAPE AND STANDARDS

5.15.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 13 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 14 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 15 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 16 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.15.2 STANDARDS

TABLE 17 NORTH AMERICA: SAFETY STANDARDS FOR TEMPERATURE SENSORS

TABLE 18 EUROPE: SAFETY STANDARDS FOR TEMPERATURE SENSORS

TABLE 19 ASIA PACIFIC: SAFETY STANDARDS FOR TEMPERATURE SENSORS

TABLE 20 ROW: SAFETY STANDARDS FOR TEMPERATURE SENSORS

6 TEMPERATURE SENSOR MATERIALS

6.1 INTRODUCTION

- 6.1.1 POLYMERS
- 6.1.2 CERAMICS
- 6.1.3 PLATINUM RESISTANCE TEMPERATURE DETECTORS
- 6.1.4 NICKEL CHROMIUM/NICKEL ALUMINUM (CODE K)
- 6.1.5 NICKEL CHROMIUM/CONSTANTAN (CODE E)
- 6.1.6 IRON/CONSTANTAN (CODE J)
- 6.1.7 NICKEL MOLYBDENUM-NICKEL COBALT THERMOCOUPLES (TYPE M)
- 6.1.8 NICROSIL/NISIL (CODE N)
- 6.1.9 COPPERS/CONSTANTAN (CODE T)
- 6.1.10 OTHER TEMPERATURE SENSOR MATERIALS (CODE U)

7 TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE

7.1 INTRODUCTION

FIGURE 33 TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE

TABLE 21 TEMPERATURE SENSOR MARKET, BY VALUE AND VOLUME, 2020–2023

TABLE 22 TEMPERATURE SENSOR MARKET, BY VALUE AND VOLUME, 2024–2029

FIGURE 34 NON-CONTACT PRODUCT TYPE TO REGISTER HIGHER CAGR DURING FORECAST PERIOD

TABLE 23 TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE, 2020–2023 (USD MILLION)

TABLE 24 TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE, 2024–2029 (USD MILLION)

7.2 CONTACT

TABLE 25 CHARACTERISTICS OF DIFFERENT TYPES OF CONTACT TEMPERATURE SENSORS

TABLE 26 CONTACT: TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE, 2020–2023 (USD MILLION)

TABLE 27 CONTACT: TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE, 2024–2029 (USD MILLION)

7.2.1 BIMETALLIC TEMPERATURE SENSORS

7.2.1.1 Use of bimetallic devices in industrial temperature measurement systems to foster segmental growth

7.2.2 THERMOCOUPLES

7.2.2.1 Installation of thermocouples in steel and iron manufacturing units for temperature monitoring to drive market

7.2.3 RESISTIVE TEMPERATURE DETECTORS

7.2.3.1 High corrosion resistance to boost adoption of resistive temperature detectors in industrial applications

7.2.4 THERMISTORS

7.2.4.1 Low cost and quick response to changes in temperature to contribute to segmental growth

7.2.5 TEMPERATURE SENSOR ICs

7.2.5.1 Small-sized and low-cost attributes to accelerate demand for temperature sensor ICs

7.3 NON-CONTACT

TABLE 28 NON-CONTACT: TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE, 2020–2023 (USD MILLION)

TABLE 29 NON-CONTACT: TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE, 2024–2029 (USD MILLION)

7.3.1 INFRARED TEMPERATURE SENSORS

7.3.1.1 Adoption of infrared sensors to detect hazardous activities in chemical facilities to fuel segmental growth

7.3.2 FIBER-OPTIC TEMPERATURE SENSORS

7.3.2.1 Intrinsic safety and high-temperature operating capability to boost segmental growth

8 TEMPERATURE SENSOR MARKET, BY OUTPUT

8.1 INTRODUCTION

FIGURE 35 TEMPERATURE SENSOR MARKET, BY OUTPUT

FIGURE 36 DIGITAL OUTPUT TO DOMINATE TEMPERATURE SENSOR MARKET FROM 2024 TO 2028

TABLE 30 TEMPERATURE SENSOR MARKET, BY OUTPUT, 2020–2023 (USD MILLION)

TABLE 31 TEMPERATURE SENSOR MARKET, BY OUTPUT, 2024–2029 (USD MILLION)

8.2 ANALOG

8.2.1 EASE-OF-USE AND LOW-COST ATTRIBUTES TO AUGMENT SEGMENTAL GROWTH

8.3 DIGITAL

8.3.1 RISING ADOPTION OF DIGITAL TEMPERATURE SENSORS IN REMOTE APPLICATIONS TO PROPEL MARKET

8.3.2 SINGLE-CHANNEL DIGITAL TEMPERATURE SENSORS

8.3.3 MULTI-CHANNEL DIGITAL TEMPERATURE SENSORS

9 TEMPERATURE SENSOR MARKET, BY CONNECTIVITY

9.1 INTRODUCTION

FIGURE 37 TEMPERATURE SENSOR MARKET, BY CONNECTIVITY

FIGURE 38 WIRED CONNECTIVITY TO DOMINATE TEMPERATURE SENSOR MARKET BETWEEN 2024 AND 2029

TABLE 32 TEMPERATURE SENSOR MARKET, BY CONNECTIVITY, 2020–2023 (USD MILLION)

TABLE 33 TEMPERATURE SENSOR MARKET, BY CONNECTIVITY, 2024–2029 (USD MILLION)

9.2 WIRELESS

9.2.1 INCREASING DEVELOPMENT OF SENSORS WITH IN-BUILT EDGE AI AND MESH CONNECTIVITY TO ACCELERATE SEGMENTAL GROWTH

9.3 WIRED

9.3.1 HIGH ACCURACY AND LOW COST OF WIRED TEMPERATURE SENSORS TO DRIVE MARKET

10 TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY

10.1 INTRODUCTION

FIGURE 39 TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY

FIGURE 40 CONSUMER ELECTRONICS INDUSTRY TO EXHIBIT HIGHEST CAGR IN TEMPERATURE SENSOR MARKET DURING FORECAST PERIOD

TABLE 34 TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)

TABLE 35 TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)

10.2 CHEMICALS

10.2.1 DEPLOYMENT OF AUTOMATION AND PROCESS CONTROL TECHNOLOGIES IN CHEMICAL PLANTS TO BOOST SEGMENTAL GROWTH

TABLE 36 CHEMICALS: TEMPERATURE SENSOR MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 37 CHEMICALS: TEMPERATURE SENSOR MARKET, BY REGION, 2024–2029 (USD MILLION)

10.3 OIL & GAS

10.3.1 NEED FOR EARLY DETECTION OF POTENTIAL HAZARDS IN OIL & GAS FACILITIES TO DRIVE MARKET

TABLE 38 OIL & GAS: TEMPERATURE SENSOR MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 39 OIL & GAS: TEMPERATURE SENSOR MARKET, BY REGION, 2024–2029
(USD MILLION)

10.4 CONSUMER ELECTRONICS

10.4.1 ADOPTION OF TEMPERATURE SENSOR ICs TO REMOTELY REPORT
TEMPERATURES OF CONSUMER ELECTRICS TO PROPEL MARKET

TABLE 40 CONSUMER ELECTRONICS: TEMPERATURE SENSOR MARKET, BY
REGION, 2020–2023 (USD MILLION)

TABLE 41 CONSUMER ELECTRONICS: TEMPERATURE SENSOR MARKET, BY
REGION, 2024–2029 (USD MILLION)

10.5 ENERGY & POWER

10.5.1 PREFERENCE FOR RENEWABLE ENERGY GENERATION TO
CONTRIBUTE TO SEGMENTAL GROWTH

TABLE 42 ENERGY & POWER: TEMPERATURE SENSOR MARKET, BY REGION,
2020–2023 (USD MILLION)

TABLE 43 ENERGY & POWER: TEMPERATURE SENSOR MARKET, BY REGION,
2024–2029 (USD MILLION)

10.6 HEALTHCARE

10.6.1 REQUIREMENT FOR SENSORS IN MEDICAL DEVICES TO CAPTURE REM-
TIME DATA TO ACCELERATE SEGMENTAL GROWTH

TABLE 44 HEALTHCARE: TEMPERATURE SENSOR MARKET, BY REGION,
2020–2023 (USD MILLION)

TABLE 45 HEALTHCARE: TEMPERATURE SENSOR MARKET, BY REGION,
2024–2029 (USD MILLION)

10.7 AUTOMOTIVE

10.7.1 NEED TO MEASURE EXHAUST GAS TEMPERATURE FOR AUTOMOBILE'S
ELECTRONIC CONTROL UNIT TO PROPEL MARKET

TABLE 46 AUTOMOTIVE: TEMPERATURE SENSOR MARKET, BY REGION,
2020–2023 (USD MILLION)

TABLE 47 AUTOMOTIVE: TEMPERATURE SENSOR MARKET, BY REGION,
2024–2029 (USD MILLION)

10.8 METALS & MINING

10.8.1 RELIANCE ON SENSORS FOR MINERAL EXTRACTION, REFINING, AND
ENGINE MONITORING TO BOOST SEGMENTAL GROWTH

TABLE 48 METALS & MINING: TEMPERATURE SENSOR MARKET, BY REGION,
2020–2023 (USD MILLION)

TABLE 49 METALS & MINING: TEMPERATURE SENSOR MARKET, BY REGION,
2024–2029 (USD MILLION)

10.9 FOOD & BEVERAGES

10.9.1 DEPLOYMENT OF TEMPERATURE MONITORING AND CONTROL

DEVICES TO MAINTAIN QUALITY OF FOODS & BEVERAGES TO PROPEL MARKET

TABLE 50 FOOD & BEVERAGES: TEMPERATURE SENSOR MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 51 FOOD & BEVERAGES: TEMPERATURE SENSOR MARKET, BY REGION, 2024–2029 (USD MILLION)

10.10 PULP & PAPER

10.10.1 USE OF HIGH-TEMPERATURE SENSORS IN CHEMICAL PULPING PROCESSES TO FOSTER SEGMENTAL GROWTH

TABLE 52 PULP & PAPER: TEMPERATURE SENSOR MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 53 PULP & PAPER: TEMPERATURE SENSOR MARKET, BY REGION, 2024–2029 (USD MILLION)

10.11 AEROSPACE & DEFENSE

10.11.1 ADOPTION OF SENSORS TO PRECISELY MEASURE AIRCRAFT TEMPERATURE TO AUGMENT MARKET GROWTH

TABLE 54 AEROSPACE & DEFENSE: TEMPERATURE SENSOR MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 55 AEROSPACE & DEFENSE: TEMPERATURE SENSOR MARKET, BY REGION, 2024–2029 (USD MILLION)

10.12 GLASS

10.12.1 USE OF INFRARED SENSORS TO MEASURE FURNACE TEMPERATURE TO DRIVE MARKET

TABLE 56 GLASS: TEMPERATURE SENSOR MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 57 GLASS: TEMPERATURE SENSOR MARKET, BY REGION, 2024–2029 (USD MILLION)

10.13 OTHER END-USER INDUSTRIES

TABLE 58 OTHER END-USER INDUSTRIES: TEMPERATURE SENSOR MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 59 OTHER END-USER INDUSTRIES: TEMPERATURE SENSOR MARKET, BY REGION, 2024–2029 (USD MILLION)

11 TEMPERATURE SENSOR MARKET, BY REGION

11.1 INTRODUCTION

FIGURE 41 TEMPERATURE SENSOR MARKET, BY REGION

FIGURE 42 ASIA PACIFIC TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 60 TEMPERATURE SENSOR MARKET, BY REGION, 2020–2023 (USD MILLION)

TABLE 61 TEMPERATURE SENSOR MARKET, BY REGION, 2024–2029 (USD MILLION)

11.2 NORTH AMERICA

FIGURE 43 NORTH AMERICA: TEMPERATURE SENSOR MARKET SNAPSHOT

TABLE 62 NORTH AMERICA: TEMPERATURE SENSOR MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 63 NORTH AMERICA: TEMPERATURE SENSOR MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 64 NORTH AMERICA: TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE, 2020–2023 (USD MILLION)

TABLE 65 NORTH AMERICA: TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE, 2024–2029 (USD MILLION)

TABLE 66 NORTH AMERICA: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)

TABLE 67 NORTH AMERICA: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)

11.2.1 US

11.2.1.1 Increasing adoption of smart home devices to contribute to market growth

TABLE 68 US: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)

TABLE 69 US: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)

11.2.2 CANADA

11.2.2.1 Rising production of heavy machinery and electronic devices to fuel market growth

TABLE 70 CANADA: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)

TABLE 71 CANADA: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)

11.2.3 MEXICO

11.2.3.1 Growing access to healthcare services to drive market

TABLE 72 MEXICO: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)

TABLE 73 MEXICO: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)

11.2.4 RECESSION IMPACT ON MARKET IN NORTH AMERICA

11.3 EUROPE

FIGURE 44 EUROPE: TEMPERATURE SENSOR MARKET SNAPSHOT**TABLE 74 EUROPE: TEMPERATURE SENSOR MARKET, BY COUNTRY, 2020–2023 (USD MILLION)****TABLE 75 EUROPE: TEMPERATURE SENSOR MARKET, BY COUNTRY, 2024–2029 (USD MILLION)****TABLE 76 EUROPE: TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE, 2020–2023 (USD MILLION)****TABLE 77 EUROPE: TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE, 2024–2029 (USD MILLION)****TABLE 78 EUROPE: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)****TABLE 79 EUROPE: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)****11.3.1 UK**

11.3.1.1 Thriving high-end consumer electronics industry to foster market growth

TABLE 80 UK: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)**TABLE 81 UK: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)****11.3.2 GERMANY**

11.3.2.1 Rising implementation of industry 4.0 to digitalize manufacturing operations to propel market

TABLE 82 GERMANY: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)**TABLE 83 GERMANY: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)****11.3.3 FRANCE**

11.3.3.1 Increasing focus on electricity generation using recycled nuclear fuels to accelerate market growth

TABLE 84 FRANCE: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)**TABLE 85 FRANCE: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)****11.3.4 REST OF EUROPE****TABLE 86 REST OF EUROPE: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)****TABLE 87 REST OF EUROPE: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)****11.3.5 RECESSION IMPACT ON MARKET IN EUROPE**

11.4 ASIA PACIFIC

FIGURE 45 ASIA PACIFIC: TEMPERATURE SENSOR MARKET SNAPSHOT

TABLE 88 ASIA PACIFIC: TEMPERATURE SENSOR MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 89 ASIA PACIFIC: TEMPERATURE SENSOR MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 90 ASIA PACIFIC: TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE, 2020–2023 (USD MILLION)

TABLE 91 ASIA PACIFIC: TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE, 2024–2029 (USD MILLION)

TABLE 92 ASIA PACIFIC: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)

TABLE 93 ASIA PACIFIC: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)

11.4.1 CHINA

11.4.1.1 Rapid industrialization to drive market

TABLE 94 CHINA: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)

TABLE 95 CHINA: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)

11.4.2 JAPAN

11.4.2.1 Heightened demand for home automation systems to boost market growth

TABLE 96 JAPAN: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)

TABLE 97 JAPAN: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)

11.4.3 SOUTH KOREA

11.4.3.1 Increased funds for semiconductor manufacturing to augment market growth

TABLE 98 SOUTH KOREA: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)

TABLE 99 SOUTH KOREA: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)

11.4.4 INDIA

11.4.4.1 Expansion of oil refineries to contribute to market growth

TABLE 100 INDIA: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)

TABLE 101 INDIA: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)

11.4.5 REST OF ASIA PACIFIC

TABLE 102 REST OF ASIA PACIFIC: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)

TABLE 103 REST OF ASIA PACIFIC: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)

11.4.6 RECESSION IMPACT ON MARKET IN ASIA PACIFIC

11.5 ROW

TABLE 104 ROW: TEMPERATURE SENSOR MARKET, BY COUNTRY, 2020–2023 (USD MILLION)

TABLE 105 ROW: TEMPERATURE SENSOR MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 106 ROW: TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE, 2020–2023 (USD MILLION)

TABLE 107 ROW: TEMPERATURE SENSOR MARKET, BY PRODUCT TYPE, 2024–2029 (USD MILLION)

TABLE 108 ROW: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)

TABLE 109 ROW: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)

11.5.1 SOUTH AMERICA

11.5.1.1 Rise in electronics manufacturing to fuel market growth

TABLE 110 SOUTH AMERICA: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)

TABLE 111 SOUTH AMERICA: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)

11.5.2 GCC

11.5.2.1 Rapid digital transformation of oil & gas sector to drive market

TABLE 112 GCC: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)

TABLE 113 GCC: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)

11.5.3 REST OF MIDDLE EAST & AFRICA

TABLE 114 REST OF MIDDLE EAST & AFRICA: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2020–2023 (USD MILLION)

TABLE 115 REST OF MIDDLE EAST & AFRICA: TEMPERATURE SENSOR MARKET, BY END-USER INDUSTRY, 2024–2029 (USD MILLION)

12 COMPETITIVE LANDSCAPE

12.1 OVERVIEW

Temperature Sensor Market by Product Type (Contact Temperature Sensor, Non-Contact Temperature Sensor), Output...

12.2 STRATEGIES ADOPTED BY KEY PLAYERS, 2019–2023

TABLE 116 TEMPERATURE SENSOR MARKET: OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS, 2019–2023

12.2.1 PRODUCT PORTFOLIO EXPANSION

12.2.2 REGIONAL FOOTPRINT EXPANSION

12.2.3 ORGANIC/INORGANIC GROWTH

12.3 MARKET SHARE ANALYSIS, 2022

FIGURE 46 MARKET SHARE ANALYSIS OF TOP 5 PLAYERS, 2022

TABLE 117 TEMPERATURE SENSOR MARKET SHARE ANALYSIS, 2021

12.4 REVENUE ANALYSIS, 2018–2022

FIGURE 47 REVENUE ANALYSIS OF TOP 5 PLAYERS, 2020–2022

12.5 COMPANY EVALUATION MATRIX, 2022

12.5.1 STARS

12.5.2 EMERGING LEADERS

12.5.3 PERVASIVE PLAYERS

12.5.4 PARTICIPANTS

12.5.5 COMPANY FOOTPRINT

TABLE 118 COMPANY OVERALL FOOTPRINT

TABLE 119 COMPANY PRODUCT TYPE FOOTPRINT

TABLE 120 COMPANY END-USER INDUSTRY FOOTPRINT

TABLE 121 COMPANY REGION FOOTPRINT

FIGURE 48 TEMPERATURE SENSOR MARKET: COMPANY EVALUATION MATRIX, 2022

12.6 START-UP/SMALL- AND MEDIUM-SIZED ENTERPRISE (SME) EVALUATION MATRIX, 2022

12.6.1 PROGRESSIVE COMPANIES

12.6.2 RESPONSIVE COMPANIES

12.6.3 DYNAMIC COMPANIES

12.6.4 STARTING BLOCKS

12.6.5 COMPETITIVE BENCHMARKING

TABLE 122 TEMPERATURE SENSOR MARKET: LIST OF KEY START-UPS/SMES

TABLE 123 TEMPERATURE SENSOR MARKET: COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES

FIGURE 49 TEMPERATURE SENSOR MARKET: START-UP/SME EVALUATION MATRIX, 2022

12.7 COMPETITIVE SCENARIOS AND TRENDS

12.7.1 PRODUCT LAUNCHES

TABLE 124 TEMPERATURE SENSOR MARKET: PRODUCT LAUNCHES, 2020–2023

12.7.2 DEALS

TABLE 125 TEMPERATURE SENSOR MARKET: DEALS, 2020–2023

12.7.3 OTHERS

TABLE 126 TEMPERATURE SENSOR MARKET: OTHERS, 2020–2023

13 COMPANY PROFILES

(Business overview, Products/Solutions/Services offered, Recent developments & MnM View)*

13.1 KEY PLAYERS

13.1.1 HONEYWELL INTERNATIONAL INC.

TABLE 127 HONEYWELL INTERNATIONAL INC.: COMPANY OVERVIEW

FIGURE 50 HONEYWELL INTERNATIONAL INC.: COMPANY SNAPSHOT

TABLE 128 HONEYWELL INTERNATIONAL INC.:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 129 HONEYWELL INTERNATIONAL INC.: PRODUCT LAUNCHES

TABLE 130 HONEYWELL INTERNATIONAL INC.: DEALS

13.1.2 TE CONNECTIVITY

TABLE 131 TE CONNECTIVITY: COMPANY OVERVIEW

FIGURE 51 TE CONNECTIVITY: COMPANY SNAPSHOT

TABLE 132 TE CONNECTIVITY: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 133 TE CONNECTIVITY: DEALS

13.1.3 TEXAS INSTRUMENTS INCORPORATED

TABLE 134 TEXAS INSTRUMENTS INCORPORATED: COMPANY OVERVIEW

FIGURE 52 TEXAS INSTRUMENTS INCORPORATED: COMPANY SNAPSHOT

TABLE 135 TEXAS INSTRUMENTS INCORPORATED:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 136 TEXAS INSTRUMENTS INCORPORATED: PRODUCT LAUNCHES

13.1.4 ENDRESS+HAUSER GROUP SERVICES AG

TABLE 137 ENDRESS+HAUSER GROUP SERVICES AG: COMPANY OVERVIEW

FIGURE 53 ENDRESS+HAUSER GROUP SERVICES AG: COMPANY SNAPSHOT

TABLE 138 ENDRESS+HAUSER GROUP SERVICES AG:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 139 ENDRESS+HAUSER GROUP SERVICES AG: PRODUCT LAUNCHES

TABLE 140 ENDRESS+HAUSER GROUP SERVICES AG: DEALS

TABLE 141 ENDRESS+HAUSER GROUP SERVICES AG: OTHERS

13.1.5 SIEMENS

TABLE 142 SIEMENS: COMPANY OVERVIEW

FIGURE 54 SIEMENS: COMPANY SNAPSHOT

TABLE 143 SIEMENS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 144 SIEMENS: PRODUCT LAUNCHES

TABLE 145 SIEMENS: DEALS

13.1.6 EMERSON ELECTRIC CO.

TABLE 146 EMERSON ELECTRIC CO.: COMPANY OVERVIEW

FIGURE 55 EMERSON ELECTRIC CO.: COMPANY SNAPSHOT

TABLE 147 EMERSON ELECTRIC CO.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 148 EMERSON ELECTRIC CO.: OTHERS

13.1.7 ANALOG DEVICES, INC.

TABLE 149 ANALOG DEVICES, INC.: COMPANY OVERVIEW

FIGURE 56 ANALOG DEVICES, INC.: COMPANY SNAPSHOT

TABLE 150 ANALOG DEVICES, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 151 ANALOG DEVICES, INC.: DEALS

TABLE 152 ANALOG DEVICES, INC.: OTHERS

13.1.8 AMPHENOL CORPORATION

TABLE 153 AMPHENOL CORPORATION: COMPANY OVERVIEW

FIGURE 57 AMPHENOL CORPORATION: COMPANY SNAPSHOT

TABLE 154 AMPHENOL CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 155 AMPHENOL CORPORATION: DEALS

TABLE 156 AMPHENOL CORPORATION: OTHERS

13.1.9 WIKA ALEXANDER WIEGAND SE & CO. KG

TABLE 157 WIKA ALEXANDER WIEGAND SE & CO. KG: COMPANY OVERVIEW

TABLE 158 WIKA ALEXANDER WIEGAND SE & CO. KG: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 159 WIKA ALEXANDER WIEGAND SE & CO. KG: OTHERS

13.1.10 MICROCHIP TECHNOLOGY INC.

TABLE 160 MICROCHIP TECHNOLOGY INC.: COMPANY OVERVIEW

FIGURE 58 MICROCHIP TECHNOLOGY INC: COMPANY SNAPSHOT

TABLE 161 MICROCHIP TECHNOLOGY INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

*Details on Business overview, Products/Solutions/Services offered, Recent developments & MnM View might not be captured in case of unlisted companies.

13.2 OTHER PLAYERS

13.2.1 STMICROELECTRONICS

13.2.2 NXP SEMICONDUCTORS

13.2.3 OMEGA ENGINEERING, INC.

13.2.4 YOKOGAWA ELECTRIC CORPORATION

- 13.2.5 MURATA MANUFACTURING CO., LTD.
- 13.2.6 IFM ELECTRONIC GMBH
- 13.2.7 DWYER INSTRUMENTS, LLC.
- 13.2.8 VISHAY INTERTECHNOLOGY, INC.
- 13.2.9 PANASONIC CORPORATION
- 13.2.10 DENSO CORPORATION
- 13.2.11 KONGSBERG MARITIME
- 13.2.12 AMETEK, INC.
- 13.2.13 AMS-OSRAM AG
- 13.2.14 FLIR SYSTEMS, INC.
- 13.2.15 PYROMATION

14 APPENDIX

- 14.1 INSIGHT FROM INDUSTRY EXPERTS
- 14.2 DISCUSSION GUIDE
- 14.3 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL
- 14.4 CUSTOMIZATION OPTIONS
- 14.5 RELATED REPORTS
- 14.6 AUTHOR DETAILS

About

According to the research report on "Temperature Sensor Market by Product Type (Bimetallic, Thermistor, IC, RTD, Thermocouple, IR, Fiber Optic), End-User Industry (Oil & Gas, Chemicals, Automotive, Consumer Electronics, Healthcare), and Geography - Global Forecast to 2023", the temperature sensor market, the overall market is estimated to grow from USD 5.62 Billion in 2018 to USD 7.48 Billion by 2023, at a CAGR of 5.9% between 2018 and 2023. The increasing penetration of temperature sensors in advanced and portable healthcare equipment, growing demand for temperature sensors in the automotive sector, and the increasing adoption of home and building automation systems are the key factors driving the temperature sensor market growth.

Major players operating in the temperature sensor market include

ABB (Switzerland)

Texas Instruments (US)

Analog Devices (US)

Honeywell International (US)

Amphenol (US)

Global Mixed Mode Technology (Taiwan)

Integrated Device Tecgnology (US)

Kongsberg Gruppen (Norway)

Microchip Technology (US)

ON Semiconductor (US)

Endress+Hauser (Switzerland)

Okazaki Manufacturing Company (Japan)

Yamari Industries (Japan)

STMicroelectronics (Switzerland)

TE Connectivity (Switzerland)

Gunther GmbH Temperaturmesstechnik (Germany)

Omega Engineering (US)

Market for contact-type temperature sensor to grow at higher CAGR during forecast period

Contact-type temperature sensors comprise thermocouple, RTD, thermistor, temperature sensor IC, and bimetallic temperature sensor. These are widely used in industries such as chemicals, consumer electronics, oil & gas, energy & power, and automotive, owing to their low cost, wide temperature range, and high accuracy. The rising adoption of temperature sensors in automotive, chemicals, and consumer electronics sectors is the major driving factor for the market. Moreover, it is expected that the growth of contact-type temperature sensors will be driven by wearables, smartphones, and other consumer electronics devices.

Chemicals to account for largest size of temperature sensor market in 2018

Monitoring and controlling temperature in any chemical process is of vital importance. There are various critical and sensitive chemical processes wherein a small change in temperature may damage the processing equipment, as well as lead to loss of hundreds of thousands. Therefore, temperature sensors play an important role in the chemicals end-user industry. Processes such as refining, heat tracing, cracking, and incineration, and systems such as sanitary systems and piping systems use temperature sensors for temperature monitoring and control. Such usage of temperature sensors in the chemicals end-user industry creates significant demand for these sensors.

APAC to dominate temperature sensor market during forecast period

The temperature sensor market in Asia Pacific is expected to grow at the highest CAGR

during the forecast period as APAC has a strong demand for consumer equipment, including portable healthcare electronics and white goods. Increasing industrial automation, especially in automotive and food & beverages sectors, will generate demand for temperature sensors in APAC.

I would like to order

Product name: Temperature Sensor Market by Product Type (Contact Temperature Sensor, Non-Contact Temperature Sensor), Output (Analog, Digital), Connectivity (Wired, Wireless), End-user Industry (Consumer Electronics, Oil & Gas) and Region - Global Forecast to 2029

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