

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.

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
 - 1.3.1 MARKETS COVERED
 - 1.3.2 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY AND PRICING
- 1.5 LIMITATIONS
- 1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Key data from primary sources
 - 2.1.2.2 Key industry insights
 - 2.1.2.3 Breakdown of primaries
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 BOTTOM-UP APPROACH
 - 2.2.2 TOP-DOWN APPROACH
- 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION
- 2.4 RESEARCH ASSUMPTIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 TEMPERATURE SENSORS MARKET EXPECTED TO GROW AT A STABLE GROWTH RATE BETWEEN 2016 AND 2022
- 4.2 TEMPERATURE SENSORS MARKET, BY PRODUCT TYPE (2016–2022)
- 4.3 TEMPERATURE SENSORS: END-USER INDUSTRIES MARKET, BY PROCESS INDUSTRY END USER
- 4.4 TEMPERATURE SENSORS: END-USER INDUSTRIES MARKET, BY DISCRETE INDUSTRY END USER (2013–2022)

4.5 TEMPERATURE SENSORS MARKET, BY REGION AND BY PRODUCT

4.6 TEMPERATURE SENSORS MARKET, BY GEOGRAPHY (2016–2022)

4.7 LIFE CYCLE ANALYSIS, BY GEOGRAPHY

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET SEGMENTATION

5.2.1 TEMPERATURE SENSORS MARKET, BY PRODUCT TYPE

5.2.2 TEMPERATURE SENSORS MARKET, BY END-USER INDUSTRY

5.2.2.1 Temperature sensors: End-user industries market, by process industry end user

5.2.2.2 Temperature sensors: End-user industries market, by discrete industry end user

5.2.3 TEMPERATURE SENSORS MARKET, BY GEOGRAPHY

5.3 MARKET DYNAMICS

5.3.1 DRIVERS

5.3.1.1 High demand for temperature sensors among industrial end users

5.3.1.2 Growing concern toward security and surveillance

5.3.1.3 Developing automotive industry in emerging markets

5.3.1.4 Government initiatives towards environment and safety norms

5.3.1.5 Robust demand for consumer electronics products

5.3.2 RESTRAINTS

5.3.2.1 Competition among the different temperature sensing technologies

5.3.2.2 Highly mature end-user market

5.3.3 OPPORTUNITIES

5.3.3.1 Technical developments

5.3.3.2 Emergence of MEMS in temperature sensing

5.3.4 CHALLENGES

5.3.4.1 Stringent performance requirements for advanced sensor applications

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 VALUE CHAIN ANALYSIS

6.3 INDUSTRY TRENDS

6.4 PORTER'S FIVE FORCES ANALYSIS

6.4.1 THREAT OF NEW ENTRANTS

6.4.2 THREAT OF SUBSTITUTES

- 6.4.3 BARGAINING POWER OF SUPPLIERS
- 6.4.4 BARGAINING POWER OF BUYERS
- 6.4.5 INTENSITY OF COMPETITIVE RIVALRY

6.5 PEST ANALYSIS

- 6.5.1 POLITICAL FACTORS
- 6.5.2 ECONOMIC FACTORS
- 6.5.3 SOCIAL FACTORS
- 6.5.4 TECHNOLOGICAL FACTORS

7 MARKET, BY PRODUCT TYPE

- 7.1 INTRODUCTION
- 7.2 BIMETALLIC TEMPERATURE SENSOR
- 7.3 TEMPERATURE SENSOR IC
- 7.4 THERMISTOR
- 7.5 RESISTIVE TEMPERATURE DETECTOR (RTD)
- 7.6 THERMOCOUPLE
- 7.7 INFRARED TEMPERATURE SENSORS
- 7.8 FIBER OPTIC TEMPERATURE SENSORS
- 7.9 OTHER TYPES OF TEMPERATURE SENSORS
 - 7.9.1 MEMS-BASED TEMPERATURE SENSORS
 - 7.9.2 USB-BASED TEMPERATURE SENSORS
 - 7.9.3 WI-FI-BASED TEMPERATURE SENSORS
 - 7.9.4 ZIGBEE-BASED TEMPERATURE SENSORS
 - 7.9.5 BLUETOOTH-BASED TEMPERATURE SENSORS
 - 7.9.6 RFID-TEMPERATURE SENSORS

8 MARKET, BY END USER INDUSTRY

- 8.1 INTRODUCTION
- 8.2 PROCESS INDUSTRY END USERS
 - 8.2.1 CHEMICAL & PETROCHEMICAL INDUSTRY
 - 8.2.2 OIL & GAS INDUSTRY
 - 8.2.3 ADVANCED FUELS INDUSTRY
 - 8.2.4 METAL INDUSTRY
 - 8.2.5 POWER GENERATION & ALTERNATIVE POWER GENERATION INDUSTRY
 - 8.2.6 FOOD & BEVERAGE INDUSTRY
 - 8.2.7 GLASS INDUSTRY
 - 8.2.8 PLASTIC INDUSTRY

8.2.9 REFINING INDUSTRY

8.2.10 OTHERS

8.3 DISCRETE INDUSTRY END USERS

8.3.1 SEMICONDUCTORS SECTOR

8.3.2 HVAC SECTOR

8.3.3 HEALTHCARE SECTOR

8.3.4 AUTOMOTIVE SECTOR

8.3.5 AEROSPACE & DEFENSE SECTOR

9 GEOGRAPHIC ANALYSIS

9.1 INTRODUCTION

9.2 NORTH AMERICA

9.2.1 U.S.

9.2.1.1 U.S. holds a large share of the temperature sensor market

9.2.1.2 U.S. is home to some of the major temperature sensors manufacturers in the world

9.2.2 CANADA

9.2.2.1 Canada to be the second-largest market for temperature sensors, in North America owing to government support

9.2.3 MEXICO

9.2.3.1 Healthcare sector is amongst the major sectors in the country

9.3 EUROPE

9.3.1 GERMANY

9.3.1.1 Germany's automotive industry and power sector to drive temperature sensors market

9.3.2 FRANCE

9.3.2.1 France held the largest share of nuclear electricity in the world (2014)

9.3.2.2 France emerged as the third-largest automobile manufacturer (2015)

9.3.3 U.K.

9.3.3.1 The electronics sector in the U.K. is the fifth-largest in the world (2014)

9.3.4 SPAIN

9.3.4.1 Spain is among the world leaders for technological and industrial development of renewable energies

9.3.4.2 Spain is the second-largest automotive manufacturer in Europe (2015)

9.3.5 OTHERS

9.3.5.1 Italy has second-best healthcare system in the world

9.3.5.2 Switzerland spends approximately 12% of its GDP on healthcare

9.4 ASIA-PACIFIC (APAC)

9.4.1 CHINA

9.4.1.1 China is the largest economic power in APAC

9.4.2 JAPAN

9.4.2.1 Japan ranks third in terms of vehicle production (2015) and its economy is the third-largest in the world

9.4.3 INDIA

9.4.3.1 Ideal location for business expansions

9.4.3.2 India holds the world's largest refinery

9.4.3.3 Sixth-largest automobile industry in the world in terms of vehicle unit production (2015)

9.4.4 SOUTH KOREA

9.4.4.1 Home to major automotive and consumer electronics companies

9.4.5 OTHERS

9.4.5.1 Australia is among the richest healthcare markets in Asia-Pacific

9.4.5.2 Taiwanese firms have captured some of the major markets in consumer electronics

9.5 REST OF WORLD (ROW)

9.5.1 SOUTH AMERICA

9.5.1.1 Brazil is amongst the fastest-growing economies in the world

9.5.2 MIDDLE EAST

9.5.2.1 Strong base of oil & gas and refining industries located in the Middle East

9.5.3 AFRICA

9.5.3.1 Petrochemical industry is one of the key contributors to the country's GDP

10 COMPETITIVE LANDSCAPE

10.1 OVERVIEW

10.2 KEY PLAYERS IN TEMPERATURE SENSORS MARKET

10.3 COMPETITIVE SITUATIONS AND TRENDS

10.3.1 NEW PRODUCT DEVELOPMENTS

10.3.2 MERGERS & ACQUISITIONS

10.3.3 AGREEMENTS AND CONTRACTS

10.3.4 OTHER DEVELOPMENTS

10.3.5 EXPANSIONS

11 COMPANY PROFILES

(Company at a Glance, Recent Financials, Products & Services, Strategies & Insights, & Recent Developments)*

- 11.1 INTRODUCTION
- 11.2 TEXAS INSTRUMENTS INCORPORATED
- 11.3 ANALOG DEVICES, INC.
- 11.4 ABB LTD.
- 11.5 HONEYWELL INTERNATIONAL INC.
- 11.6 MAXIM INTEGRATED PRODUCTS INC.
- 11.7 SIEMENS AG
- 11.8 DANAHER CORPORATION
- 11.9 KONGSBERG GRUPPEN
- 11.10 TE CONNECTIVITY LTD.
- 11.11 EMERSON ELECTRIC COMPANY
- 11.12 PANASONIC CORPORATION
- 11.13 GENERAL ELECTRIC
- 11.14 STMICROELECTRONICS
- 11.15 MICROCHIP TECHNOLOGY INCORPORATED
- 11.16 NXP SEMICONDUCTORS N.V.

*Details on company at a glance, recent financials, products & services, strategies & insights, & recent developments might not be captured in case of unlisted companies.

12 APPENDIX

- 12.1 INSIGHTS OF INDUSTRY EXPERTS
- 12.2 DISCUSSION GUIDE
- 12.3 INTRODUCING RT: REAL-TIME MARKET INTELLIGENCE
- 12.4 AVAILABLE CUSTOMIZATIONS
- 12.5 RELATED REPORTS

List Of Tables

LIST OF TABLES

TABLE 1 CURRENCY TABLE

TABLE 2 GLOBAL TEMPERATURE SENSORS MARKET SIZE, IN TERMS OF VALUE AND VOLUME, 2013–2022

TABLE 3 VEHICLE PRODUCTION IN MAJOR GEOGRAPHIES, 2006–2013 (MILLION UNITS)

TABLE 4 INCREASING DEMAND FOR SENSING TECHNOLOGIES FROM INDUSTRIAL END USERS EXPECTED TO PROPEL THE GROWTH OF THE TEMPERATURE SENSOR MARKET

TABLE 5 COMPETITION AMONG THE TECHNOLOGIES IS A KEY RESTRAINT FOR THE TEMPERATURE SENSOR MARKET

TABLE 6 TECHNOLOGICAL DEVELOPMENTS AND EMERGENCE OF MEMS TECHNOLOGY IN TEMPERATURE SENSING ARE THE KEY OPPORTUNITIES FOR THE MARKET

TABLE 7 STRINGENT PERFORMANCE REQUIREMENTS IN ADVANCE SENSOR APPLICATIONS POSE A MAJOR CHALLENGE FOR MANUFACTURERS

TABLE 8 PORTER'S FIVE FORCES ANALYSIS: INTENSITY OF COMPETITIVE RIVALRY LIKELY TO HAVE A HIGH IMPACT ON THE TEMPERATURE SENSORS MARKET

TABLE 9 MAJOR PRODUCT TYPE CHARACTERISTICS

TABLE 10 TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 11 TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (MILLION UNITS)

TABLE 12 BIMETALLIC TEMPERATURE SENSOR: TEMPERATURE SENSORS MARKET SIZE, BY PROCESS INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 13 BIMETALLIC TEMPERATURE SENSOR: TEMPERATURE SENSORS MARKET SIZE, BY DISCRETE INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 14 TEMPERATURE SENSOR IC: TEMPERATURE SENSORS MARKET SIZE, BY PROCESS INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 15 TEMPERATURE SENSOR IC: TEMPERATURE SENSORS MARKET SIZE, BY DISCRETE INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 16 TEMPERATURE SENSORS MARKET SIZE, BY THERMISTOR, 2013–2022 (USD MILLION)

TABLE 17 TEMPERATURE SENSORS MARKET SIZE, BY THERMISTOR, 2013–2022 (MILLION UNITS)

TABLE 18 THERMISTOR: TEMPERATURE SENSORS MARKET SIZE, BY PROCESS INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 19 THERMISTOR: TEMPERATURE SENSORS MARKET SIZE, BY DISCRETE INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 20 RESISTIVE TEMPERATURE DETECTOR: TEMPERATURE SENSORS MARKET SIZE, BY PROCESS INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 21 RESISTIVE TEMPERATURE DETECTOR: TEMPERATURE SENSORS MARKET SIZE, BY DISCRETE INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 22 COMMON TYPES OF THERMOCOUPLE

TABLE 23 THERMOCOUPLE: TEMPERATURE SENSORS MARKET SIZE, BY PROCESS INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 24 THERMOCOUPLE: TEMPERATURE SENSORS MARKET SIZE, BY DISCRETE INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 25 INFRARED TEMPERATURE SENSORS: TEMPERATURE SENSORS MARKET SIZE, BY PROCESS INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 26 INFRARED TEMPERATURE SENSORS: TEMPERATURE SENSORS MARKET SIZE, BY DISCRETE INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 27 FIBER OPTIC TEMPERATURE SENSORS: TEMPERATURE SENSORS MARKET SIZE, BY PROCESS INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 28 FIBER OPTIC TEMPERATURE SENSORS: TEMPERATURE SENSORS MARKET SIZE, BY DISCRETE INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 29 OTHERS: TEMPERATURE SENSORS MARKET SIZE, BY PROCESS INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 30 OTHERS: TEMPERATURE SENSORS MARKET SIZE, BY DISCRETE INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 31 TEMPERATURE SENSORS MARKET SIZE, BY END USER, 2013–2022 (USD MILLION)

TABLE 32 TEMPERATURE SENSORS MARKET SIZE, BY PROCESS INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 33 CHEMICAL & PETROCHEMICAL INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 34 CHEMICAL & PETROCHEMICAL INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 35 OIL & GAS INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 36 OIL & GAS INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 37 ADVANCED FUELS INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 38 ADVANCED FUELS INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 39 METAL INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 40 METAL INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 41 POWER GENERATION & ALTERNATIVE POWER GENERATION INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 42 POWER GENERATION & ALTERNATIVE POWER GENERATION INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 43 FOOD & BEVERAGE INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 44 FOOD & BEVERAGE INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 45 GLASS INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 46 GLASS INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 47 PLASTIC INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 48 PLASTIC INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 49 REFINING INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 50 REFINING INDUSTRY: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 51 OTHER INDUSTRIES: TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 52 OTHER INDUSTRIES: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 53 TEMPERATURE SENSORS MARKET SIZE, BY DISCRETE INDUSTRY END USER, 2013–2022 (USD MILLION)

TABLE 54 SEMICONDUCTORS SECTOR: TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 55 SEMICONDUCTORS SECTOR: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 56 HVAC SECTOR: TEMPERATURE SENSORS MARKET SIZE, BY

PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 57 HVAC SECTOR: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 58 HEALTHCARE SECTOR: TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 59 HEALTHCARE SECTOR: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 60 AUTOMOTIVE SECTOR: TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 61 AUTOMOTIVE SECTOR: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 62 AEROSPACE & DEFENSE SECTOR: TEMPERATURE SENSORS MARKET SIZE, BY PRODUCT TYPE, 2013–2022 (USD MILLION)

TABLE 63 AEROSPACE & DEFENSE SECTOR: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 64 TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 65 NORTH AMERICA: TEMPERATURE SENSORS MARKET SIZE, BY COUNTRY, 2013–2022 (USD MILLION)

TABLE 66 NORTH AMERICA: TEMPERATURE SENSORS MARKET SIZE, BY END USER, 2013–2022 (USD MILLION)

TABLE 67 EUROPE: TEMPERATURE SENSORS MARKET SIZE, BY COUNTRY, 2013–2022 (USD MILLION)

TABLE 68 EUROPE: TEMPERATURE SENSORS MARKET SIZE, BY END USER, 2013–2022 (USD MILLION)

TABLE 69 APAC: TEMPERATURE SENSORS MARKET SIZE, BY COUNTRY, 2013–2022 (USD MILLION)

TABLE 70 APAC: TEMPERATURE SENSORS MARKET SIZE, BY END USER, 2013–2022 (USD MILLION)

TABLE 71 ROW: TEMPERATURE SENSORS MARKET SIZE, BY REGION, 2013–2022 (USD MILLION)

TABLE 72 ROW: TEMPERATURE SENSORS MARKET SIZE, BY END USER, 2013–2022 (USD MILLION)

TABLE 73 COMPANIES REVENUE OF MAJOR PLAYERS, USD BILLION (2012–2014)

TABLE 74 TOP 5 PLAYERS IN TEMPERATURE SENSORS MARKET, 2015

TABLE 75 NEW PRODUCT DEVELOPMENTS, 2012–2015

TABLE 76 MERGERS & ACQUISITIONS (2013–2015)

TABLE 77 AGREEMENTS AND CONTRACTS (2014–2015)

TABLE 78 OTHER DEVELOPMENTS (2013–2014)

TABLE 79 EXPANSIONS (2014)

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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