

Sensor Market By Type (Radar Sensor, Optical Sensor, Biosensor, Touch Sensor, Image Sensor, Pressure Sensor, Temperature Sensor, Proximity & Displacement Sensor, Level Sensor, Motion & Position Sensor, Humidity Sensor, Accelerometer & Speed Sensor, and Others), Technology (CMOS, MEMS, NEMS, and Others), and End User (Electronics, IT & Telecom, Industrial, Automotive, Aerospace & Defense, Healthcare, and Others): Global Opportunity Analysis and Industry Forecast, 2021–2028

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Abstracts

The global sensor market size was valued at \$166.69 billion in 2019, and is projected to reach \$345.77 billion by 2028, to register a CAGR of 8.9% from 2021 to 2028. Sensor is a device that detects physical input such as light, heat, motion, moisture, pressure, or any other entity, and responds by producing an output on a display or transmits the information in electronic form for further processing.

Sensors are widely used in day-to-day life such as touch-sensitive elevator buttons and lamps which brighten or dim by touching the base. In addition, with developments in micromachinery & microcontroller platforms, uses of sensors have expanded beyond traditional fields of pressure measurement and temperature, for instance into MARG sensors. There are also a wide range of other sensors, measuring physical & chemical characters of materials such as vibrational sensor for fluid viscosity measurement, optical sensor for refractive index measurement, and electro-chemical sensors for monitoring pH of liquids.

Growth in trend of Internet of Things (IoT), rise in demand for sensors in development of smart cities, advancements in sensors, their increased usage in smartphones and other electronics devices, development in automation sector, and emerging applications of radar in remote sensing are expected to fuel growth of the sensor market. However, incorporating sensors in devices incurs extra value and reduces life of device. This factor is expected to hinder the market growth. Moreover, rise in adoption of wearable devices, innovative applications in biomedical sector, and surge in the automotive sector offers huge market opportunities in the next few years.

The global sensor market trends are analyzed across various segments including type, technology, end user, and region. By type, the market is categorized into radar sensor, optical sensor, biosensor, touch sensor, image sensor, pressure sensor, temperature sensor, proximity & displacement sensor, level sensor, motion & position sensor, humidity sensor, accelerometer & speed sensor, and other sensors. By technology, it is divided into CMOS, MEMS, NEMS, and others. On the basis of end user, it is categorized into electronics, IT & telecom, industrial, automotive, aerospace & defense, healthcare, and others.

Region wise, the sensor market trends are analyzed across North America (the U.S., Canada, and Mexico), Europe (the UK, Germany, France, Italy, and Rest of Europe), Asia-Pacific (China, Japan, India, South Korea, and Rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa). The key players operating in the market include as Atmel Corporation, Honeywell International Inc., Infineon Technologies AG, Johnson Controls International PLC., NXP semiconductors N.V., Qualcomm Technologies Inc., Robert Bosch GmbH, Sony Corporation, STMicroelectronics, and Texas instruments Inc.

Sensor Market Key Segments

By Type

Radar Sensor

Optical Sensor

Biosensor

Touch Sensor

Image Sensor

Pressure Sensor

Temperature Sensor

Proximity & Displacement Sensor

Level Sensor

Motion & Position Sensor

Humidity Sensor

Accelerometer & Speed Sensor

Others

By Technology

CMOS

MEMS

NEMS

Others

By End User

Electronics

IT & Telecom

Industrial

Automotive

Aerospace & Defense

Healthcare

Others

By Region

North America

U.S.

Canada

Mexico

Europe

U.K.

Germany

France

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

Atmel Corporation

Honeywell International Inc.

Infineon Technologies AG

Johnson Controls International PLC.

NXP semiconductors N.V.

Qualcomm Technologies, Inc.

Robert Bosch GmbH

Sony Corporation

STMicroelectronics

Texas instruments Inc.

TE Connectivity

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