

Automotive Sensors Market Application, Analysis, Type, Trends, Region Forecasts To 2028

Automotive sensors market was valued at USD 24.46 Billion in 2020 and is expected to grow at a CAGR of 9.7% CAGR during the forecast period (from 2020-2028)

NEW YORK, NY, UNITED STATE, October 21, 2021 /EINPresswire.com/ -- The [automotive sensors market](#) was valued at USD 24.6 billion in 2018 and is expected to reach USD 43.1 billion by

the year 2028, at a CAGR of 7.2% CAGR during the forecast period (from 2018 – 2028). The continual development in automotive electronics sensors application and technology, the rising concern for safety, increasing demand of automation in automobiles, demand of concept cars from high-income consumers and increasing use of sensors in hybrid semi hybrid and electric cars are boosting the demand of automotive sensors market

Sensors are the type of transducers that detect the difference in its environment due to mechanical change and transfer it as an optical or electric signal to the concerned component. In-vehicle, sensors are used to develop a centralized control system for the car. Sensors are installed in vehicles to increase the reliability of the vehicle and the safety of the passenger. Different sensors such as temperature, pressure sensors, position sensors, speed sensors, NOx, oxygen sensors, and many other sensors are used in automotive.

Sensors are used in almost all parts of the vehicle like chassis, engines, clutch, brakes, transmission, control, and safety. There are several different types of sensors, like speed sensors, pressure sensors, humidity sensors, temperature sensors, safety sensors, and others. Pressure sensors have wide applications in fuel, safety, and engine. There are different sub-types of pressure sensors like fuel pressure sensor, air conditioning pressure sensor, manifold pressure sensor, oil pressure sensor, and others. In the vehicle, engine pressure sensors are used to regulate or fluctuate the power delivered by the engine whenever the vehicle is accelerated, or brakes are applied; it also monitors the coolant and oil pressure. For safety purposes, the pressure sensors adapt to any road terrain and prevent skidding of vehicles. Humidity sensors detect and measure water vapor and also detect fogged up windscreens.



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Further key findings from the report suggest-

The demand for automotive sensors is expected to witness exponential growth during the forecast period considering the rising number of vehicles with autonomous driving features, and currently, Level 2 and Level 3 autonomous driving is commercialized

ADAS (Advanced Driver Assistance Systems), the currently booming technology is powered by automotive sensors are driving the automotive sensors market. Further, vehicle autonomy would be achieved by incorporating efficient micro-controllers and highly precise sensors. Lidar sensor is the most important sensor for an autonomous automotive vehicle. Self-driving or autonomous vehicles being tested by companies such as Uber, Alphabet, Toyota, and others rely heavily on these type of sensors to locate themselves on the detailed maps they need to get around, and to identify things like other vehicles and pedestrians

The rising number of vehicles fortified with autonomous driving sensors will accelerate the growth of the automotive sensors market. The autonomous driving is majorly achieved by the highly efficient and precise micro-controller sensors. AVs are capable of sensing their environment, and the safe movement is proficient with the help of the sensors.

By the application segment, exhaust sub-segment will have better growth during the forecast period. The advanced exhaust sensor takes the performance of the engine to the next level by ensuring less emission of carbon di-oxide with efficient fuel consumption by vehicle.

Images sensors are also now being widely used to update the road maps and provide other crucial directions. Like, if there is a one-way road with no signboards, the systems updated them onto the cloud along with the updating the concerned persons on the requirements of a signboard

The Asia Pacific region is expected to lead the automotive sensors market over the forecast period owing to the increasing production and sale of vehicles in this region. Stable economic condition and improving the standard of living is the key reason for the sales of vehicle in this region

China is the major player and accounts for the largest share for the automotive sensors market in this region. Other countries like India, Japan, and South Korea have also experienced an increase in the installation of automotive sensors.

Robert Bosch (Germany), Continental AG (Germany), Delphi Automotive (UK), Denso Corporation (Japan), Infineon Technologies (Germany), Sensata Technologies (US), Allegro Microsystems (US), Analog Devices (US), Elmos Semiconductor (Germany), and CTS Corporation (US) and others are operating in the automotive sensors marketplace

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For the purpose of this study, Reports and Data have segmented the industry by Technology, by Function, by Process, by Component and by Region:

Automotive Sensors Market by Type (Revenue, USD Million; 2016–2026)

- Temperature
 - Thermocouple
 - Thermistor
 - MEMS
 - Resistance temperature detector
 - IC temperature sensor
 - Others
- Pressure
 - MEMS
 - Strain gauges
 - Ceramic pressure sensors
- Position
 - Angular
 - Linear
- Oxygen
- NOx
- Speed
- Inertial
 - Accelerometers
 - Gyroscopes
- Image
 - Complementary Metal Oxide Semiconductors (CMOS)
 - Charge-coupled Devices (CCD)
- Radars
- Ultrasonic
- Proximity
- LiDAR
- Others

Automotive Sensors Market by Applications (Revenue, USD Million; 2016–2026)

- Powertrain
- Chassis
- Exhaust
- Safety & control
- Body electronics
- Telematics
- ADAS
- Others

Automotive Sensors Market by Vehicle Type (Revenue, USD Million; 2016–2026)

Passenger Vehicle

Mid-sized car

Sedan

Minivan

Convertible

Crossover

Hatchback

Others

Light Commercial Vehicle (LCV)

Compact

Utility Vehicle

Supermini

Light Truck

Others

Heavy Commercial Vehicle (HCV)

Mobile Truck

Limo

Recreational Vehicle

Towing Truck

Fire Trucks

Others

Automotive Sensors Market by Propulsion (Revenue, USD Million; 2016–2026)

Electric Vehicles

Battery Electric Vehicle

Fuel Cell Electric Vehicle

Hybrid Electric Vehicle

Plug-in Hybrid Electric Vehicle

Gasoline Powered

Automotive Sensors Market by Region (Revenue, USD Million; 2016–2026)

North America

US

Canada

Mexico

Europe

Germany

France

UK

Spain
Italy
Benelux
Rest of the Europe
Asia Pacific
China
India
Japan
South Korea
Singapore
Rest of Asia-Pacific
Middle East and Africa
Latin America
Brazil
Argentina
Rest of Latin America

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