

Automotive Powertrain Sensors Market By Sensors Type (Temperature, Position, Exhaust, Pressure, Speed, Knock), Powertrain Subsystems (Engine Management, Transmission Management, Power Steering), and Vehicle Type (ICE, EV) - Global Forecast to 2028

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Abstracts

Automotive Powertrain Sensors Market By Sensors Type (Temperature, Position, Exhaust, Pressure, Speed, Knock), Powertrain Subsystems (Engine Management, Transmission Management, Power Steering), and Vehicle Type (ICE, EV) - Global Forecast to 2028

The automotive powertrain sensors market is expected to grow at a CAGR of 6% from 2021 to 2028 to reach \$26.47 billion by 2028.

Succeeding an extensive secondary and primary research and in-depth analysis of the market scenario, the report carries out an impact analysis of the key industry drivers, restraints, and opportunities. Factors such as the rising need for fuel-efficient cars, the increasing requirement of sensors in hybrid powertrains, and the increasing demand for mid-sized cars from developing nations are driving the growth of the automotive powertrain sensors market. Moreover, rising awareness about reducing the carbon footprint of vehicles and stringent emission regulations are providing significant growth opportunities for players operating in this market. However, the high development cost of automotive sensors hinders the growth of this market.

Based on sensors type, the automotive powertrain sensors market is segmented into temperature, position, exhaust, pressure, speed, knock, and other sensors. The position

sensors segment is expected to grow at the highest CAGR during the forecast period. The high growth of powertrain position sensors is majorly attributed to the rising adoption of emerging technologies in automotive production, such as electric power steering, traction inverters, automatic transmissions, and anti-lock braking systems. Apart from these, position sensors are also increasingly installed in gearbox assemblies to monitor the torque delivered at each gear position and optimize shifting to deliver maximum power.

Based on vehicle type, the automotive powertrain sensors market is segmented into internal combustion engines and electric vehicles. The electric vehicles segment is projected to grow at the highest CAGR during the forecast period. The high growth in this segment is majorly attributed to the rapid adoption of hybrid electric powertrain for optimizing the use of combustion engines for low-speed cruising, stringent emission norms in Europe and the U.S., and innovations in battery technology production.

Based on powertrain subsystems, the automotive powertrain sensors market is segmented into engine management, transmission management, and power steering. The transmission management segment is projected to grow at the highest CAGR during the forecast period. The high growth of the transmission management segment during the forecast period is majorly attributed to the growing adoption of hybrid electric vehicles and plug-in hybrid electric vehicles requiring multiple sensors to measure torque, the position of gears, and power delivery. Moreover, implementation of technologies, such as continuous variable transmission, multi-gear automatic transmission, dual-clutch transmission, and regenerative braking have led to powertrain designs that involve higher internal pressures, greater instantaneous forces, increased electronic signatures, and are more complex designs and mechanical operation which supports the high growth of this segment.

An in-depth analysis of the geographical scenario of the automotive powertrain sensors market provides detailed qualitative and quantitative insights about the six major geographies (North America, Europe, Asia-Pacific, Latin America, the Middle East, and Africa) along with the coverage of major countries in each region. In 2021, Asia-Pacific commanded the largest share of the automotive powertrain sensors market, followed by Europe, North America, Latin America, and the Middle East & Africa.

The Latin American region is projected to grow at the highest CAGR during the forecast period. This region's high growth is attributed to the presence of fast-growing economies, such as Brazil and Argentina, and the increasing adoption of electric power steering systems. Moreover, government policies in this region support the adoption of

fuel-efficient powertrain technologies leading to higher adoption of fuel-efficient technologies.

The key players operating in the automotive powertrain sensors market are Texas Instruments (U.S.), Denso Corporation (Japan), Robert Bosch GmbH (Germany), Mitsubishi Electric Corporation (Japan), Infineon Technologies (Germany), NXP Semiconductor (Netherlands), HELLA GmbH & Co. (Germany), Valeo (France), CTS Corporation (U.S.), Renesas Electronics Corporation (Japan), ZF Friedrichshafen AG (Germany), Delphi Technologies (U.K.), PCB Piezotronics Inc. (U.S.), STMicroelectronics N.V. (Switzerland), and TE Connectivity (Switzerland).

SCOPE

Automotive Powertrain Sensors Market, by Sensor Type

Temperature Sensors

- Thermocouple

- Thermistor

- Silicon

Position Sensors

- Capacitive

- Inductive

- Magnetic

Exhaust Sensors

- Lambda/Oxygen Sensors

- Nitrogen Sensors

- Soot Sensors

Ammonia Sensors

Pressure Sensors

Fluid Concentration Sensors

Knock Sensor

Speed Sensors

Torque Sensors

Current Sensors

Voltage Sensors

Automotive Powertrain Sensors Market, by Powertrain Subsystems

Engine Management Sensors

Pressure Sensors

Fluid Concentration Sensors

Position Sensors

Temperature Sensors

Exhaust Sensors

Knock Sensors

Transmission Management Sensors

Speed Sensors

Position Sensors

Temperature Sensors

Pressure Sensors

Power steering Sensors

Torque Sensors

Speed Sensors

Position Sensors

Temperature Sensors

Automotive Powertrain Sensors Market, by Vehicle Type

Internal Combustion Engines

Passenger

Pressure Sensors

Position Sensors

Temperature Sensors

Exhaust Sensors

Speed Sensors

Others

Light Commercial Vehicles

Pressure Sensors

Position Sensors

Temperature Sensors

Exhaust Sensors

Speed Sensors

Others

Heavy Commercial Vehicles

Pressure Sensors

Position Sensors

Temperature Sensors

Exhaust Sensors

Speed Sensors

Others

Electric Vehicles

Battery Electric Vehicles

Speed Sensors

Torque Sensors

Current Sensors

Voltage Sensors

Position Sensors

Temperature Sensors

Fuel Cell Electric Vehicles

Speed Sensors

Torque Sensors

Current Sensors

Voltage Sensors

Position Sensors

Temperature Sensors

Plug-in Hybrid Electric Vehicles

Speed Sensors

Torque Sensors

Current Sensors

Voltage Sensors

Position Sensors

Temperature Sensors

Hybrid Electric Vehicles

Speed Sensors

Torque Sensors

Current Sensors

Voltage Sensors

Position Sensors

Temperature Sensors

Automotive Powertrain Sensors Market, by Geography

North America

U.S.

Canada

Europe

Germany

The U.K

France

Italy

Spain

Russia & CIS

Rest of Europe

Asia-Pacific (APAC)

Japan

China

South Korea

India

Thailand

Rest of Asia-Pacific (RoAPAC)

Latin America

Middle East and Africa

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