

Automotive Powertrain Sensors Market Report by Sensor Type (Temperature Sensors, Position Sensors, Exhaust Sensors, Knock Sensors, Speed Sensors, Torque Sensors, Pressure Sensors, and Others), Powertrain Subsystem (Engine Management Sensors, Transmission Management Sensors, Power Steering Sensors), Vehicle Type (Internal Combustion Engines, Electric Vehicles), Sales channel (Original Equipment Manufacturer (OEMs), Aftermarket), and Region 2023-2028

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Abstracts

Market Overview:

The global automotive powertrain sensors market size reached US\$ 18.43 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 26.57 Billion by 2028, exhibiting a growth rate (CAGR) of 6.20% during 2023-2028. The continuous technological advancements in sensor technologies, the increasing adoption of safety and driver assistance feature, and the integration of artificial intelligence (AI) and machine learning (ML) with powertrain sensors represent some of the key factors driving the market.

The powertrain refers to the system responsible for generating and transmitting power to propel the vehicle, including the engine, transmission, and drivetrain components. Automotive powertrain sensors are essential components of modern vehicles that play a crucial role in monitoring and controlling various aspects of the powertrain system. They

are designed to detect and measure various parameters, such as engine speed, temperature, pressure, position, and airflow. These sensors also monitor parameters, including gear position, clutch engagement, and output speed, allowing the transmission control module to optimize gear shifts and ensure smooth power transfer to the wheels. Besides, they provide real-time data to the vehicle's electronic control unit (ECU) or engine management system, enabling it to make precise adjustments for optimal performance, efficiency, and emissions control. They also help enable the implementation of advanced features, such as hybrid powertrains, adaptive cruise control, and engine start-stop systems.

Automotive Powertrain Sensors Market Trends:

Significant growth in the automotive industry is driving the global market. This can be supported by the growing demand for passenger cars, commercial vehicles, and electric vehicles. Moreover, the governments of several countries are imposing stringent emission standards to reduce the environmental impact of vehicles, which is providing a boost to the market. Besides, the rising demand for fuel-efficient automotive parts is catalyzing the demand for powertrain sensors to enable precise monitoring and control of parameters, such as air-fuel mixture, combustion timing, and transmission shifting, resulting in enhanced fuel economy. Furthermore, continuous advancements in sensor technologies, such as improved accuracy, reliability, and miniaturization, are also impacting the market. Additionally, the increasing

adoption of safety and driver assistance features, including antilock brake systems (ABS), traction control systems (TCS), adaptive cruise control, and lane departure warning, are acting as another growth-inducing factor. Moreover, the rapid electrification of vehicles is strengthening the market as powertrain sensors play a vital role in monitoring and controlling electric motors, battery management systems, charging infrastructure, and other components essential for electric propulsion. Apart from this, the integration of artificial intelligence (AI) and machine learning (ML) as powertrain sensors plays a crucial role in collecting real-time data for AI and ML applications, enabling advanced functionalities, such as predictive maintenance, adaptive control, and intelligent decision-making, are also impelling the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global automotive powertrain sensors market, along with forecasts at the global, regional, and country levels from 2023-2028. Our report has categorized the market based on sensor type, powertrain subsystem, vehicle type, and sales channel.

Sensor Type Insights:

Temperature Sensors

Thermocouple

Thermistor

Silicon

Position Sensors

Capacitive

Inductive

Magnetic

Exhaust Sensors

Lambda/ Oxygen Sensors

Nitrogen Sensors

Soot Sensors

Ammonia Sensors

Knock Sensors

Speed Sensors

Torque Sensors

Pressure Sensors

Others

The report types provided a detailed breakup and analysis of the automotive powertrain sensors market based on the sensor type. This includes temperature sensors (thermocouple, thermistor and silicon), position sensors (capacitive, inductive and magnetic), exhaust sensors (lambda/ oxygen sensors, nitrogen sensors, soot sensors and ammonia sensors), knock sensors, speed sensors, torque sensors, pressure sensors, and others. According to the report, temperature sensor exhibited a clear dominance in the market.

Powertrain Subsystem Insights:

Engine Management Sensors

Transmission Management Sensors

Power Steering Sensors

A detailed breakup and analysis of the automotive powertrain sensors market based on the powertrain subsystem has also been provided in the report. This includes engine management sensors, transmission management sensors, and power steering sensors. According to the report, engine management sensors exhibited a clear dominance in

the market.

Vehicle Type Insights:

Internal Combustion Engines

Passenger

Light Commercial Vehicles

Heavy Commercial Vehicles

Electric Vehicles

Battery Electric Vehicles

Fuel Cell Electric Vehicles

Plug-in Hybrid Electric Vehicles

Hybrid Electric Vehicles

A detailed breakup and analysis of the automotive powertrain sensors market based on the vehicle type has also been provided in the report. This includes internal combustion engines (passenger, light commercial vehicles and heavy commercial vehicles) and electric vehicles (battery electric vehicles, fuel cell electric vehicles, plug-in hybrid electric vehicles and hybrid electric vehicles). According to the report, internal combustion engines exhibited a clear dominance in the market.

Sales channel Insights

Original Equipment Manufacturer (OEMs)

Aftermarket

A detailed breakup and analysis of the automotive powertrain sensors market based on the sales channel has also been provided in the report. This includes original equipment manufacturer (OEMs), and aftermarket. According to the report, original equipment manufacturer (OEMs) exhibited a clear dominance in the market.

Regional Insights:

North America

United States

Canada

Asia Pacific

China

Japan

India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Europe exhibited a clear dominance in the market. Some of the factors driving the Europe automotive powertrain sensors market included expanding automotive industry, shifting preference towards connected and autonomous infrastructure, and growing demand for electric power steering.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global automotive powertrain sensors market. Detailed profiles of all major companies have been provided. Some of the companies covered include Amphenol Corporation, BorgWarner Inc., Continental AG, CTS Corporation, DENSO Corporation, HELLA GmbH & Co. KGaA (Faurecia SE), Infineon Technologies AG, Mitsubishi Electric Corporation, NXP Semiconductors N.V, Renesas Electronics Corporation, Robert Bosch GmbH, TE Connectivity, Texas Instruments Incorporated etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

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Powertrain Subsystem Insights:

- Engine Management Sensors
- Transmission Management Sensors
- Power Steering Sensors

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Vehicle Type Insights:

- Internal Combustion Engines
 - Passenger
 - Light Commercial Vehicles
 - Heavy Commercial Vehicles
- Electric Vehicles
 - Battery Electric Vehicles
 - Fuel Cell Electric Vehicles
 - Plug-in Hybrid Electric Vehicles
 - Hybrid Electric Vehicles

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Sales channel Insights

- Original Equipment Manufacturer (OEMs)
- Aftermarket

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Regional Insights:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

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Key Questions Answered in This Report:

How has the global automotive powertrain sensors market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global automotive powertrain sensors market?

What is the impact of each driver, restraint, and opportunity on the global automotive powertrain sensors market?

What are the key regional markets?

Which countries represent the most attractive automotive powertrain sensors market?

What is the breakup of the market based on the sensor type?

Which is the most attractive sensor type in the automotive powertrain sensors market?

What is the breakup of the market based on the powertrain subsystem?

Which is the most attractive powertrain subsystem in the automotive powertrain sensors market?

What is the breakup of the market based on the vehicle type?

Which is the most attractive vehicle type in the automotive powertrain sensors market?

What is the breakup of the market based on the sales channel?

Which is the most attractive sales channel. in the automotive powertrain sensors market?

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