+357 96 030922
info@marketpublishers.com

Global Powertrain Sensor Market Size Study & Forecast, by Sensor Type, Propulsion, Subsystem, Vehicle & EV Type and Regional Forecasts 2025-2035

https://marketpublishers.com/r/P3421EF83D7FEN.html
Date: July 2025
Pages: 285
Price: US$ 3,750.00 (Single User License)
ID: P3421EF83D7FEN

Abstracts

The Global Powertrain Sensor Market is valued at approximately USD 29.97 billion in 2024 and is anticipated to grow with a steady CAGR of 2.80% over the forecast period from 2025 to 2035. Powertrain sensors, which serve as a crucial part of the automotive ecosystem, play an indispensable role in ensuring optimal performance, efficiency, and emissions compliance of modern vehicles. These sensors, deployed throughout internal combustion engines (ICE) and electric powertrains, are engineered to capture real-time data on pressure, speed, temperature, voltage, and position. With electrification, autonomy, and energy efficiency at the forefront of automotive innovation, the reliance on intelligent sensing systems has been profoundly amplified, enabling OEMs to streamline diagnostics, enhance safety, and maximize fuel economy through real-time powertrain management.

The industry is undergoing a transformative shift, accelerated by the dual momentum of e-mobility adoption and stricter regulatory environments across major global markets. In ICE-powered vehicles, sensors that monitor oil pressure, camshaft positioning, crankshaft rotation, and coolant temperatures have become pivotal for performance tuning and emissions reduction. Simultaneously, the transition to electric vehicles has fueled a parallel surge in demand for voltage, temperature, and current sensors tailored to EV platforms. These components ensure thermal regulation, battery efficiency, and system safety. The rapid proliferation of hybrid and battery electric vehicles has thus opened new frontiers, creating a parallel growth trajectory for powertrain sensor technologies that are compact, highly sensitive, and digitally integrated.

From a geographic standpoint, Asia Pacific holds the lion’s share of the global powertrain sensor market, underpinned by robust automotive manufacturing hubs in

+357 96 030922
info@marketpublishers.com

China, Japan, and India. These nations have not only expanded ICE vehicle production but have also made assertive strides in EV development, backed by government incentives and green energy targets. Europe continues to command a strong presence owing to the continent's early move toward emission neutrality and the presence of several premium automotive brands pioneering sensor-intensive powertrain systems. Meanwhile, North America remains a key region with technological advancements driven by both legacy automakers and emerging EV startups. Latin America and the Middle East & Africa, though relatively nascent, are anticipated to witness incremental growth driven by rising vehicle ownership and supportive policy frameworks over the long term.

Major market player included in this report are:

Robert Bosch GmbH

Infineon Technologies AG

Denso Corporation

Sensata Technologies

BorgWarner Inc.

Continental AG

NXP Semiconductors

Analog Devices Inc.

Texas Instruments Incorporated

Hitachi Astemo Ltd.

ZF Friedrichshafen AG

Renesas Electronics Corporation

TE Connectivity Ltd.

+357 96 030922
info@marketpublishers.com

Valeo SA

STMicroelectronics NV

Global Powertrain Sensor Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Sensor Type for ICE Vehicle:

Position

Pressure

+357 96 030922
info@marketpublishers.com

Speed

Temperature

By Sensor Type for EV:

Position

Temperature

Current

Voltage

By Propulsion:

Internal Combustion Engine (ICE)

Electric Vehicle (EV)

Hybrid Electric Vehicle (HEV)

Plug-in Hybrid Electric Vehicle (PHEV)

By Powertrain Subsystem:

Engine

Transmission

Battery

Motor/Generator

Others

+357 96 030922
info@marketpublishers.com

By Vehicle Type:

- Passenger Car (PC)
- Light Commercial Vehicle (LCV)
- Heavy Commercial Vehicle (HCV)

By EV Type:

- Battery Electric Vehicle (BEV)
- Plug-in Hybrid Electric Vehicle (PHEV)
- Hybrid Electric Vehicle (HEV)
- Fuel Cell Electric Vehicle (FCEV)

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France

+357 96 030922
info@marketpublishers.com

- Spain
- Italy
- Rest of Europe

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico

Middle East & Africa

- UAE
- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

+357 96 030922
info@marketpublishers.com

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

CHAPTER 4. GLOBAL POWERTRAIN SENSOR INDUSTRY ANALYSIS

CHAPTER 5. GLOBAL POWERTRAIN SENSOR MARKET SIZE & FORECASTS BY SENSOR TYPE FOR ICE VEHICLE 2025–2035

+357 96 030922
info@marketpublishers.com

CHAPTER 6. GLOBAL POWERTRAIN SENSOR MARKET SIZE & FORECASTS BY SENSOR TYPE FOR EV 2025–2035

CHAPTER 7. GLOBAL POWERTRAIN SENSOR MARKET SIZE & FORECASTS BY PROPULSION & SUBSYSTEM 2025–2035

CHAPTER 8. GLOBAL POWERTRAIN SENSOR MARKET SIZE & FORECASTS BY VEHICLE & EV TYPE 2025–2035

+357 96 030922
info@marketpublishers.com

CHAPTER 9. GLOBAL POWERTRAIN SENSOR MARKET SIZE & FORECASTS BY REGION 2025–2035

+357 96 030922
info@marketpublishers.com

CHAPTER 10. COMPETITIVE INTELLIGENCE

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Powertrain Sensor Market Size Study & Forecast, by Sensor Type, Propulsion, Subsystem, Vehicle & EV Type and Regional Forecasts 2025-2035

Product link: https://marketpublishers.com/r/P3421EF83D7FEN.html

Price: US$ 3,750.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/P3421EF83D7FEN.html