

# Global Automotive Engine Pressure Sensors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Automotive Engine Pressure Sensors market size was valued at US\$ 4085 million in 2025 and is forecast to a readjusted size of US\$ 6841 million by 2032 with a CAGR of 7.6% during review period.

Automotive Engine Pressure Sensors are electronic sensing devices installed in the engine or adjacent fluid circuits to measure absolute pressure, gauge pressure, or differential pressure in the intake manifold, boost line, fuel rail, oil gallery, exhaust aftertreatment loop, and in some cases transmission hydraulic circuits, converting these pressure changes into analog or digital signals readable by the ECU, TCU, or vehicle controller. They are typically compact packaged components with a plastic or metal housing, a media port, a threaded or clip-on mounting interface, an electrical connector, and internal sensing plus signal-conditioning circuitry. Their core structure generally includes a pressure-sensitive diaphragm, a piezoresistive or capacitive sensing element, a Wheatstone bridge, ASIC-based compensation electronics, sealing and isolation structures, and often an integrated temperature sensing function. By product form, they include MAP sensors, TMAP sensors, fuel pressure sensors, oil pressure sensors, exhaust differential pressure sensors, and cylinder pressure sensors. Their function is to support fuel injection, ignition, boost control, emission regeneration, lubrication protection, and diagnostics, thereby improving combustion efficiency, reducing emissions, and safeguarding durability.

From an industry value perspective, automotive engine pressure sensors do not belong to a short-cycle component market driven by a single blockbuster vehicle platform. Instead, they represent a foundational sensing segment shaped by regulation, efficiency

demands, and powertrain platform evolution. Whether the focus is on improving thermal efficiency in combustion engines or enabling more refined operating-window control in hybrid architectures, pressure data remains central to closed-loop control. Products such as MAP, TMAP, fuel pressure, oil pressure, and exhaust differential pressure sensors have evolved from simple detection devices into critical input nodes for fuel injection, ignition, boost control, regeneration strategy, lubrication protection, and OBD diagnostics. Their value lies not only in unit content per vehicle, but also in the multiplier effect they create on calibration quality, emissions compliance, durability control, and aftersales diagnostic cost. As emissions standards tighten, fuel economy targets rise, and hybridization advances, the market increasingly rewards suppliers capable of delivering high accuracy, low drift, harsh-media compatibility, pressure-temperature integration, digital output, and functional safety. This favors manufacturers with integrated capabilities across MEMS die, packaging, ASIC, compensation software, and automotive-grade validation. Even as battery electric vehicles expand, the segment will not suddenly lose relevance, because the global installed base of combustion and hybrid vehicles remains large and the commercial vehicle, off-highway, and aftermarket cycles are substantially longer.

From a challenge and risk perspective, the key uncertainty is not whether demand still exists, but how the demand center shifts and how technical boundaries are rewritten. On one side, traditional engine-related pressure sensors will inevitably be influenced by changes in new internal-combustion vehicle mix, with Europe, China, North America, and emerging markets moving at different speeds. On the other, OEMs and Tier 1s are raising expectations across signal accuracy, EMC robustness, long-term reliability, contamination resistance, package miniaturization, and cost optimization. As a result, many smaller players may be able to build prototypes, yet still fall short in mass-production consistency, PPM control, AEC-Q qualification, functional safety documentation, and global supply capability. In parallel, volatility in raw materials, wafers, dedicated ASICs, packaging and test, and connector supply can rapidly erode margins in a price-sensitive market. For investors and sourcing teams, the real differentiator is not low-price substitution, but whether a supplier can enter mainstream OEM platforms, secure long-program nominations, and control the full capability chain from sensing element to module to calibration logic. Over time, the industry is likely to polarize further: companies without a true automotive development system may be pushed toward lower-end replacement channels, while those with platformized designs, digital interface know-how, harsh-media isolation technology, and globally distributed manufacturing footprints should continue gaining share in higher-value programs.

From a downstream demand standpoint, the market is moving from isolated pressure

detection toward multi-variable, integrated sensing nodes designed for control strategy optimization. Conventional ICE and hybrid vehicles will continue to support stable demand for MAP/TMAP, fuel rail pressure, oil pressure, and exhaust differential pressure sensors, especially as stricter emissions and higher boost levels require not only accurate measurement, but also stable output over the full service life. At the same time, electrification is not reducing the strategic importance of pressure sensing; instead, it is creating new demand pools in thermal management, refrigerant loops, battery safety, coolant circuits, braking systems, and transmission functions. In practical terms, the companies best positioned for growth are not those relying on a single sensor category, but those able to operate across engine management, exhaust aftertreatment, fluid management, and electrified thermal systems. Downstream customers increasingly prefer standardized modules that adapt quickly to multiple vehicle platforms, combination sensors with temperature output, smart devices supporting SENT, LIN, or CAN communication, and suppliers capable of stable multi-region manufacturing delivery. The next phase of competition will therefore not be about who can merely produce a pressure sensor, but who can turn pressure data into greater vehicle efficiency, safety, and calibration value.

This report is a detailed and comprehensive analysis for global Automotive Engine Pressure Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Pressure Reference Type by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Automotive Engine Pressure Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2021-2032

Global Automotive Engine Pressure Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2021-2032

Global Automotive Engine Pressure Sensors market size and forecasts, by Type and by Pressure Reference Type by Application, in consumption value (\$ Million), sales

quantity (K Units), and average selling prices (USD/Unit), 2021-2032

Global Automotive Engine Pressure Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive Engine Pressure Sensors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Engine Pressure Sensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Robert Bosch, Continental, NXP Semiconductors, Sensata Technologies, DENSO, TE Connectivity, Infineon Technologies, STMicroelectronics, Melexis, Honeywell, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

Automotive Engine Pressure Sensors market is split by Type and by Pressure Reference Type Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Pressure Reference Type Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Process Monitor Sensors

Position Monitor Sensors

## Market segment by Pressure Reference Type

Absolute Pressure Sensor

Gauge Pressure Sensor

Differential Pressure Sensor

## Market segment by Output Signal Type

Analog Output Sensor

Digital SENT Output Sensor

LIN/CAN Output Smart Sensor

Ratiometric Voltage Output Sensor

## Market segment by Sensing Principle

Piezoresistive MEMS Pressure Sensor

Capacitive MEMS Pressure Sensor

Piezoelectric Pressure Sensor

Metal Diaphragm Strain-Gauge Pressure Sensor

## Market segment by Pressure Reference Type Application

Passenger Cars

Commercial Vehicles

## Major players covered

Robert Bosch

Continental

NXP Semiconductors

Sensata Technologies

DENSO

TE Connectivity

Infineon Technologies

STMicroelectronics

Melexis

Honeywell

Amphenol Advanced Sensors

TDK

Renesas Electronics

PHINIA

Kistler

Kulite

KELLER Pressure

Micro Sensor

OMRON

Alps Alpine

Murata Manufacturing

Danfoss

Wuxi Trensor Electronics

Shanghai Prevision Automotive Sensor

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Automotive Engine Pressure Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Engine Pressure Sensors, with price, sales quantity, revenue, and global market share of Automotive Engine Pressure Sensors from 2021 to 2026.

Chapter 3, the Automotive Engine Pressure Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Engine Pressure Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and bby Pressure Reference Typey Application, with sales market share and growth rate by Type, bby Pressure Reference Typey Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Automotive Engine Pressure Sensors market forecast, by regions, by Type, and bby Pressure Reference Typey Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Engine Pressure Sensors.

Chapter 14 and 15, to describe Automotive Engine Pressure Sensors sales channel, distributors, customers, research findings and conclusion.

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