

Global Automotive Pressure Sensor Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G8057F908EC0EN.html>

Date: July 2026

Pages: 154

Price: US\$ 4,480.00 (Single User License)

ID: G8057F908EC0EN

Abstracts

The global Automotive Pressure Sensor market size is expected to reach \$ 8354 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

Automotive pressure sensors refer to automotive-grade sensor products used to detect pressure changes in gas, liquid, or oil media within automotive systems and convert pressure signals into electrical signals recognizable by electronic control units. Their core function is to monitor the pressure status of key vehicle components in real time, providing fundamental data for engine control, powertrain management, brake control, fuel supply, emission control, thermal management, chassis suspension adjustment, battery safety monitoring in new energy vehicles, and vehicle fault diagnosis.

From the perspective of product structure, automotive pressure sensors are usually composed of pressure-sensitive elements, signal conditioning circuits, packaging housings, interface connectors, and protective structures. Pressure-sensitive elements may adopt technical routes such as MEMS silicon piezoresistive, ceramic piezoresistive, ceramic capacitive, and glass micro-fused technologies, converting pressure changes in gas, liquid, or oil media into changes in resistance, capacitance, or voltage signals. The signal conditioning circuit further performs signal amplification, linearization, temperature compensation, error calibration, and analog or digital signal output, enabling the product to maintain measurement stability, response speed, and long-term reliability under automotive operating conditions such as high temperature, high humidity, vibration and shock, pressure pulsation, corrosive media, and electromagnetic interference.

Automotive pressure sensors referred to in this report mainly refer to pressure-type

sensor products with pressure measurement as their core function, used in automotive OEM or aftermarket applications. These products include engine fuel pressure sensors, oil pressure sensors, intake manifold pressure sensors, crankcase pressure sensors, fuel evaporation pressure sensors, brake pressure sensors, transmission oil pressure sensors, air-conditioning refrigerant pressure sensors, suspension pressure sensors, differential pressure sensors, and battery pack pressure sensors for new energy vehicles.

In 2025, the global production volume reached 1,585.99 million units, with an average selling price of US\$3.5 per unit.

The automotive pressure sensor industry lies at the intersection of automotive electronic sensors, automotive-grade semiconductors, and automotive components. These products are mainly used to detect pressure changes in gas, liquid, or oil media within engine, powertrain, braking, chassis, thermal management, emission aftertreatment, air-conditioning, new energy vehicle battery pack, and fuel cell systems, and convert pressure signals into electrical signals recognizable by electronic control units. As automotive control systems upgrade from mechanical control to electronic and intelligent control, pressure sensors have evolved from supporting components in traditional engine and air-conditioning systems into fundamental sensing units for vehicle power control, safety control, thermal management control, and fault diagnosis.

From the perspective of product structure, automotive pressure sensors are usually composed of pressure-sensitive elements, signal conditioning chips, packaging housings, interface connectors, sealing structures, and protective structures. The pressure-sensitive element is the core of product performance and may adopt technologies such as MEMS silicon piezoresistive, ceramic piezoresistive, ceramic capacitive, thin-film, and glass micro-fused solutions. The signal conditioning circuit is responsible for amplification, linearization, temperature compensation, error calibration, and analog or digital signal output. Since automotive operating conditions involve high temperature, high humidity, vibration and shock, pressure pulsation, oil contamination, corrosive media, and electromagnetic interference, products must offer strong environmental adaptability, long-term stability, response speed, and batch consistency.

In terms of application structure, engine and powertrain pressure sensors remain an important basic category, mainly including intake manifold pressure sensors, fuel pressure sensors, oil pressure sensors, boost pressure sensors, crankcase pressure sensors, and fuel evaporation pressure sensors. Brake and chassis pressure sensors are mainly used for brake pressure, hydraulic pressure, suspension pressure, and air

suspension pressure monitoring. HVAC and thermal management pressure sensors are mainly used in refrigerant pressure, heat pump system pressure, and battery cooling system pressure applications. Emission and aftertreatment pressure sensors mainly include DPF differential pressure, EGR differential pressure, and exhaust back pressure sensors. EV-specific pressure sensors mainly serve new applications such as battery pack safety monitoring, thermal management, fuel cell hydrogen pressure, and high-pressure cooling systems.

From the perspective of the industry chain, upstream components mainly include MEMS pressure chips, ceramic sensing elements, ASIC signal conditioning chips, PCBs, metal housings, plastic connectors, sealing materials, ceramic substrates, lead frames, packaging materials, and automated testing equipment. Midstream companies are mainly responsible for sensor structural design, sensing element packaging, signal conditioning, pressure port design, media isolation, temperature compensation, calibration testing, final assembly, and reliability verification. Downstream customers mainly include vehicle manufacturers, Tier 1 automotive suppliers, engine system suppliers, braking system suppliers, thermal management system suppliers, chassis system suppliers, and aftermarket channels. Since pressure sensors often directly participate in power, safety, or thermal management control, OEMs have high requirements for product reliability, failure rate, durability, and consistency, resulting in relatively long customer qualification cycles.

In terms of manufacturing capability, automotive pressure sensors are typical high-volume automotive-grade electronic components. Mature low-pressure and medium-pressure products are usually produced on highly automated assembly and testing lines, with the annual capacity of a single line generally reaching several million to over ten million units. For high-pressure fuel, brake pressure, hydrogen pressure, new energy vehicle battery pack pressure, and special-media pressure sensors, the effective capacity of a single line is usually lower than that of ordinary pressure sensors due to longer calibration and testing cycles, as well as stricter sealing and reliability requirements. Industry capacity bottlenecks come not only from assembly efficiency, but also from core sensing element supply, ASIC matching, automated calibration capability, testing cycle time, yield control, and customer program nomination schedules.

From the competitive landscape, the global automotive pressure sensor market is mainly led by international automotive sensor and electronic component companies, represented by Bosch, Sensata Technologies, Denso, AUMOVIO, TE Connectivity, Valeo, Honeywell, Schaeffler, TDK, Pacific Industrial, HELLA, Amphenol, ZF

Friedrichshafen, and KELLER Pressure. These companies have accumulated strong capabilities in MEMS chips, packaging design, automotive-grade qualification, global customer supply, and high-reliability products. Chinese companies have developed rapidly in recent years, driven by domestic substitution and the new energy vehicle supply chain. Representative companies include Shanghai Baolong Automotive Technology, Shenzhen Ampron Technology, Wuhan FineMEMS, Shanghai Sinotec, TEMB Intelligent Technology (Shandong), and Hangzhou Linan Tianlong Electronics. Their products are gradually covering air-conditioning pressure, oil pressure, brake pressure, thermal management pressure, battery pack pressure, TPMS, and medium- to low-pressure sensors.

In terms of profitability, the gross margin of automotive pressure sensors is significantly affected by technology route, pressure range, media environment, customer qualification difficulty, production scale, and automation level. Ordinary low-pressure and medium-pressure sensors have a relatively high degree of standardization and sufficient competition, resulting in relatively stable gross margins. High-pressure, special-media, safety-related, and EV-specific pressure sensors usually have higher gross margins than ordinary products due to higher technical barriers, stricter reliability requirements, and longer qualification cycles. Overall, the gross margin of mainstream companies in the industry is generally around 25% to 45%. Companies with capabilities in core sensing elements, ASIC design, packaging processes, and stable customer programs usually achieve better profitability.

Looking ahead, the automotive pressure sensor industry will continue to be driven by vehicle electrification, intelligence, stricter emission regulations, increasing thermal management complexity, and chassis electrification. Demand for engine-related pressure sensors in internal combustion engine vehicles will come under pressure as the share of fuel vehicles declines, but hybrid vehicles, commercial vehicles, and emission aftertreatment systems will still maintain certain demand. New energy vehicles will drive growth in pressure sensors for air-conditioning heat pumps, battery packs, cooling systems, braking systems, suspension systems, and fuel cell hydrogen systems. Technologically, products will continue to develop toward miniaturization, integration, digital output, high precision, high reliability, corrosion resistance, high-pressure capability, and intelligent diagnostics, while forming closer coordination with domain controllers, intelligent chassis systems, thermal management systems, and battery safety monitoring systems.

This report studies the global Automotive Pressure Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Pressure Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Pressure Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Pressure Sensor total production and demand, 2021-2032, (K Units)

Global Automotive Pressure Sensor total production value, 2021-2032, (USD Million)

Global Automotive Pressure Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Pressure Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Pressure Sensor domestic production, consumption, key domestic manufacturers and share

Global Automotive Pressure Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive Pressure Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Pressure Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Pressure Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bosch, Sensata Technologies, Denso, Shanghai Baolong Automotive Technology, AUMOVIO, TE Connectivity, Valeo, Honeywell, Schaeffler, TDK, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Pressure Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Units) and average price (USD/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automotive Pressure Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Pressure Sensor Market, Segmentation by Type:

Gas Pressure Sensors

Liquid Pressure Sensors

Mixed-media Pressure Sensors

Global Automotive Pressure Sensor Market, Segmentation by Technology:

Piezoresistive Pressure Sensors

Capacitive Pressure Sensors

Ceramic Pressure Sensors

Thin-film Pressure Sensors

MEMS Pressure Sensors

Global Automotive Pressure Sensor Market, Segmentation by Sales Channel:

Direct Sales

Distribution

Global Automotive Pressure Sensor Market, Segmentation by Application:

Fuel Vehicles

Electric Vehicles

Companies Profiled:

Bosch

Sensata Technologies

Denso

Shanghai Baolong Automotive Technology

AUMOVIO

TE Connectivity

Valeo

Honeywell

Schaeffler

TDK

Pacific Industrial

Shenzhen Ampron Technology

HELLA

Amphenol

ZF Friedrichshafen

Wuhan FineMEMS

Shanghai Sinotec

TEMB Intelligent Technology (Shandong)

KELLER Pressure

Hangzhou Linan Tianlong Electronics

Key Questions Answered:

1. How big is the global Automotive Pressure Sensor market?
2. What is the demand of the global Automotive Pressure Sensor market?
3. What is the year over year growth of the global Automotive Pressure Sensor market?
4. What is the production and production value of the global Automotive Pressure Sensor market?
5. Who are the key producers in the global Automotive Pressure Sensor market?
6. What are the growth factors driving the market demand?

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