

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

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Abstracts

The global Automotive Pressure and Temperature Sensor market size is expected to reach \$ 451 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

In 2025, global production of Automotive Pressure and Temperature Sensor reached 62.42 million units, with an average global market price of USD 5.27 per unit. Total production capacity was about 85 million units, and the industry's average gross margin was 31.2%.

The main upstream raw materials include semiconductor materials, metal materials, and plastic and polymer materials. Key upstream suppliers include Shin-Etsu, TI, Melexis, Murata, and KYOCERA.

Downstream customers include GM, Volkswagen, Honda, BMW, Toyota, BYD, Nissan, and Ford.

An Automotive Pressure and Temperature Sensor is a vehicle-mounted sensor that integrates pressure and temperature measurement functions into a single device. It is used to simultaneously measure pressure and temperature at the same sensing point and transmit the data to the engine control unit (ECU) or the vehicle control system. Its core feature is "multi-parameter integration," enabling the monitoring of two key physical quantities at a single installation location, thereby reducing the number of components, simplifying system layout, and improving system response efficiency.

In automotive applications, this type of sensor is widely used in engine intake systems, turbocharging systems, air conditioning systems, as well as fuel systems and new

energy vehicle thermal management systems. For example, in intake manifolds or boost pipelines, pressure is used to determine intake load and boost level, while temperature is used to correct air density and optimize fuel injection strategies. In air conditioning systems, pressure and temperature data are used to assess refrigerant conditions and protect the compressor. In new energy vehicle thermal management systems, these sensors are used to monitor the operating status of cooling circuits, ensuring that the battery and electric drive systems remain within a safe temperature range.

The automotive pressure and temperature sensor market is currently in a growth phase driven by the convergence of vehicle electrification, intelligent control, and increasingly stringent emission and safety regulations. Core demand stems from the need for precise powertrain management and the rising level of vehicle electronics. As Engine Management Systems (EMS), Battery Management Systems (BMS), thermal management systems, and intelligent chassis control systems become increasingly complex, pressure and temperature sensors?serving as critical fundamental sensing components?have expanded their application scope from traditional internal combustion engine vehicles to new energy vehicles (NEVs) and intelligent driving systems, becoming essential for operational safety and energy efficiency optimization.

In terms of application structure, the powertrain remains the primary source of demand, utilized mainly for monitoring engine intake manifold pressure, fuel system pressure, and exhaust temperature. This is followed by the NEV sector, where demand is surging for battery pack thermal management, cooling system pressure monitoring, and electric drive system temperature control. Chassis and braking systems also make extensive use of pressure sensors for ABS, ESP, and electronic brake control; additionally, HVAC and thermal management systems, transmission control systems, and emission control systems represent stable application areas. As electrification advances, the share of NEV-related applications continues to rise.

Regarding technological trends, automotive pressure and temperature sensors are evolving toward higher precision, miniaturization, integration, and digitalization. The widespread adoption of MEMS technology has significantly enhanced sensor stability and response speed, while multi-parameter integrated sensors (combining pressure and temperature) are becoming the mainstream trend to reduce system complexity and installation costs. Furthermore, digital outputs (supporting CAN, LIN, and SENT protocols) are gradually replacing traditional analog signals, thereby improving compatibility and interference resistance within the vehicle's electronic systems.

Overall, future growth in the automotive pressure and temperature sensor market will continue to benefit from rising NEV penetration, increased vehicle electronics adoption, and stricter emission and safety regulations. Development will focus on multi-parameter fusion sensors, high-precision MEMS technology, upgraded digital communication interfaces, and deep integration within NEV thermal management systems; simultaneously, the evolution toward intelligent driving and domain control architectures will drive continued progress in reliability and integration levels.

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

This report is a detailed and comprehensive analysis of the world market for Automotive Pressure and Temperature 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 and Temperature Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Automotive Pressure and Temperature

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 Valeo, Bosch, Sensata Technologies, DENSO, Amphenol, Shenzhen Ampron Technology, Shanghai Sinotec, Shanghai Baolong Automotive Technology, TEMB Intelligent Technology, BRIDGEPORT, 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 and Temperature Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Units) and average price (US\$/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 and Temperature Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Pressure and Temperature Sensor Market, Segmentation by Type:

Absolute Pressure Type

Gauge Pressure Type

Differential Pressure Type

Global Automotive Pressure and Temperature Sensor Market, Segmentation by Output Signal Type:

Analog Signal

Digital Signal

Global Automotive Pressure and Temperature Sensor Market, Segmentation by Working Principle:

Piezoresistive Type

Capacitive Type

Piezoelectric Type

Fiber Optic Type

Others

Global Automotive Pressure and Temperature Sensor Market, Segmentation by Application:

Passenger Vehicle

Commercial Vehicle

Companies Profiled:

Valeo

Bosch

Sensata Technologies

DENSO

Amphenol

Shenzhen Ampron Technology

Shanghai Sinotec

Shanghai Baolong Automotive Technology

TEMB Intelligent Technology

BRIDGEPORT

Schaeffle

TE Connectivity

Key Questions Answered:

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

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