

Global Automotive Pressure and Temperature Sensor Market Growth 2026-2032

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Abstracts

The global Automotive Pressure and Temperature Sensor market size is predicted to grow from US\$ 322 million in 2025 to US\$ 435 million in 2032; it is expected to grow at a CAGR of 4.5% from 2026 to 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.

United States market for Automotive Pressure and Temperature Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Automotive Pressure and Temperature Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Automotive Pressure and Temperature Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Automotive Pressure and Temperature Sensor players cover Valeo, Bosch, Sensata Technologies, DENSO, Amphenol, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Automotive Pressure and Temperature Sensor Industry Forecast" looks at past sales and reviews total world Automotive Pressure and Temperature Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Automotive Pressure and Temperature Sensor sales for 2026 through 2032. With Automotive Pressure and Temperature Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive Pressure and Temperature Sensor industry.

This Insight Report provides a comprehensive analysis of the global Automotive Pressure and Temperature Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive Pressure and Temperature Sensor

portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Pressure and Temperature Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Pressure and Temperature Sensor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive Pressure and Temperature Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Pressure and Temperature Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Absolute Pressure Type

Gauge Pressure Type

Differential Pressure Type

Segmentation by Output Signal Type:

Analog Signal

Digital Signal

Segmentation by Working Principle:

Piezoresistive Type

Capacitive Type

Piezoelectric Type

Fiber Optic Type

Others

Segmentation by Application:

Passenger Vehicle

Commercial Vehicle

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Valeo

Bosch

Sensata Technologies

DENSO

Amphenol

Shenzhen Ampron Technology

Shanghai Sinotec

Shanghai Baolong Automotive Technology

TEMB Intelligent Technology

BRIDGEPORT

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Pressure and Temperature Sensor market?

What factors are driving Automotive Pressure and Temperature Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive Pressure and Temperature Sensor market opportunities vary by end market size?

How does Automotive Pressure and Temperature Sensor break out by Type, by Application?

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