

Global Automotive Temperature Sensor Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Automotive Temperature Sensor market size will reach 1,458.76 Million USD in 2025 and is projected to reach 1,647.12 Million USD by 2032, with a CAGR of 1.75% (2025-2032). Notably, the China Automotive Temperature Sensor market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

An automotive temperature sensor is a measuring device used to detect the temperature of various parts of a vehicle, such as the engine cooling system, transmission, and exhaust system. The sensor works by converting the temperature into an electrical signal, which can be interpreted by the vehicle's computer system to make adjustments to engine performance. Examples of automotive temperature sensors include the coolant temperature sensor, intake air temperature sensor, and exhaust gas temperature sensor. These sensors are important in helping to monitor and regulate the temperature of critical components in a vehicle, which can prevent damage and improve performance.

The major global manufacturers of Automotive Temperature Sensor include Bosch, Sensata Technologies, Denso, BorgWarner, Continental, TE Connectivity, Hella, Valeo, Panasonic, TDK, Qufu Temb Auto Parts Manufacturing, Inzi Controls Co, Wuhan Huagong XingaoLi Electron, Nippon Thermostat Co, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading

enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Automotive Temperature Sensor. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Automotive Temperature Sensor market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Automotive Temperature Sensor market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Automotive Temperature Sensor industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Automotive Temperature Sensor Include:

Bosch

Sensata Technologies

Denso

BorgWarner

Continental

TE Connectivity

Hella

Valeo

Panasonic

TDK

Qufu Temb Auto Parts Manufacturing

Inzi Controls Co

Wuhan Huagong Xingali Electron

Nippon Thermostat Co

Automotive Temperature Sensor Product Segment Include:

Thermistor Temperature Sensor

Thermocouple Temperature Sensor

Automotive Temperature Sensor Product Application Include:

Passenger Vehicle

Commercial Vehicle

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