

Global Automatic Transmission Fluid Temperature Sensor Market Growth 2026-2032

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Abstracts

The global Automatic Transmission Fluid Temperature Sensor market size is predicted to grow from US\$ 563 million in 2025 to US\$ 785 million in 2032; it is expected to grow at a CAGR of 4.9% from 2026 to 2032.

An Automatic Transmission Fluid Temperature Sensor is an automotive-grade thermal sensing device—typically using a thermistor or temperature-sensitive semiconductor element—installed inside the transmission valve body or fluid circuit to continuously measure ATF temperature. This real-time temperature feedback is used by the Transmission Control Unit (TCU) to optimize gear shifting, hydraulic pressure, torque converter lock-up, fluid viscosity compensation, thermal protection, and diagnostic functions, thereby improving transmission performance, durability, and vehicle fuel efficiency.

The Automatic Transmission Fluid Temperature Sensor industry chain begins upstream with suppliers of NTC thermistor elements, semiconductor dies, high-temperature plastics, stainless steel housings, wiring harness materials, connectors, and sealing components; proceeds midstream where Tier-1 suppliers design, assemble, overmold, calibrate, and test sensors using automated bonding, encapsulation, and thermal-cycle reliability processes; and ends downstream with transmission manufacturers, vehicle OEMs, and aftermarket distributors who integrate the sensors into AT, CVT, and DCT systems to support real-time fluid monitoring, thermal management, shift control, diagnostics, and long-term transmission durability across passenger and commercial vehicles.

Current and upcoming projects include expanded sensor manufacturing lines in Asia, North America, and Eastern Europe to meet higher demand for AT, CVT, and DCT

transmissions; upgrades to automated overmolding and bonding equipment for enhanced precision; development of integrated temperature–pressure sensors for next-generation transmissions; new facilities supporting hybrid/EV e-drive thermal monitoring sensors; R&D for ultra-high-temperature sensors for commercial vehicles; and collaborations between OEMs and Tier-1 suppliers to localize production, reduce supply-chain risk, and support advanced TCU algorithms requiring higher accuracy and faster-response thermal data.

2025 Global Market sales Volume: 125 million units, Average Global Market Price: USD 4.6 per unit, Market Average Gross Profit Margin: 19%.

United States market for Automatic Transmission Fluid 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 Automatic Transmission Fluid 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 Automatic Transmission Fluid 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 Automatic Transmission Fluid Temperature Sensor players cover Amphenol, Hefei Bangli Electronics Co., Ltd., Robert Bosch GmbH, Continental, Texas Instruments, 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 “Automatic Transmission Fluid Temperature Sensor Industry Forecast” looks at past sales and reviews total world Automatic Transmission Fluid Temperature Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Automatic Transmission Fluid Temperature Sensor sales for 2026 through 2032. With Automatic Transmission Fluid Temperature Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automatic Transmission Fluid Temperature Sensor industry.

This Insight Report provides a comprehensive analysis of the global Automatic Transmission Fluid 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 Automatic Transmission Fluid Temperature Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automatic Transmission Fluid Temperature Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automatic Transmission Fluid 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 Automatic Transmission Fluid Temperature Sensor.

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

Segmentation by Type:

NTC Sensing Element Technology

RTD Sensing Element Technology

Others

Segmentation by Structural Design:

Probe-Type Insertion Sensors

Surface-Mounted

Valve-Body Embedded

Harness-Integrated

Segmentation by Performance Class:

Standard Automotive-Grade (?40°C To +150°C)

High-Temperature Endurance Sensors (>150°C)

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.

Amphenol

Hefei Bangli Electronics Co., Ltd.

Robert Bosch GmbH

Continental

Texas Instruments

Panasonic

HELLA

DENSO

Valeo

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automatic Transmission Fluid Temperature Sensor market?

What factors are driving Automatic Transmission Fluid Temperature Sensor market growth, globally and by region?

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

How do Automatic Transmission Fluid Temperature Sensor market opportunities vary by end market size?

How does Automatic Transmission Fluid Temperature Sensor break out by Type, by Application?

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