

Global Cabin Temperature Sensors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G32BE1B6F723EN.html>

Date: April 2026

Pages: 139

Price: US\$ 3,480.00 (Single User License)

ID: G32BE1B6F723EN

Abstracts

According to our (Global Info Research) latest study, the global Cabin Temperature Sensors market size was valued at US\$ 916 million in 2025 and is forecast to a readjusted size of US\$ 1430 million by 2032 with a CAGR of 6.5% during review period.

In 2025, global Cabin Temperature Sensor output reached about 220 million units and global capacity of around 340 million units. The average unit price is about USD 4, with gross margins near 29%. Cabin Temperature Sensors are electronic sensing devices used in vehicles—especially in passenger cars, commercial vehicles, and electric vehicles—to measure the air temperature inside the vehicle cabin and provide real-time data to the heating, ventilation, and air conditioning (HVAC) control system. These sensors typically use thermistors, semiconductor temperature sensors, or resistance temperature detectors (RTDs) to detect temperature variations and transmit signals to the vehicle's climate control unit or body control module (BCM), enabling automatic adjustment of heating, cooling, and airflow to maintain passenger comfort and energy efficiency. In modern vehicles, cabin temperature sensors are often integrated with advanced climate control systems and smart cabin management platforms. The supply chain of cabin temperature sensors begins with upstream suppliers providing semiconductor materials, thermistor elements, MEMS sensing components, printed circuit boards (PCBs), plastic housings, and electronic connectors. Midstream manufacturers design and assemble the sensor modules, including calibration, packaging, and integration with signal conditioning electronics. Downstream, the sensors are supplied to automotive Tier-1 suppliers and vehicle manufacturers (OEMs), where they are integrated into HVAC modules, climate control systems, and intelligent cockpit systems used in passenger vehicles, electric vehicles, buses, and trucks.

This report is a detailed and comprehensive analysis for global Cabin Temperature Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Cabin Temperature Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Cabin Temperature Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Cabin Temperature Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Cabin Temperature Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Cabin Temperature Sensors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Cabin Temperature Sensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DENSO, Bosch, Valeo, MAHLE, Hanon, Continental, Gentherm, Sanden, Marelli, Sensata, etc.

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

Market Segmentation

Cabin Temperature Sensors market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Thermistor Temperature Sensors

Semiconductor Temperature Sensors

Infrared Temperature Sensors

Market segment by Signal Output Type

Analog Type

Digital Type

Market segment by Application

Passenger Vehicles

Commercial Vehicles

Rail Transportation

Marine Vessels

Aircrafts

Others

Major players covered

DENSO

Bosch

Valeo

MAHLE

Hanon

Continental

Gentherm

Sanden

Marelli

Sensata

Amphenol

TE Connectivity

Murata

TDK

Panasonic

SEMITEC

Honeywell

HELLA

Keihin

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Cabin Temperature Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cabin Temperature Sensors, with price, sales quantity, revenue, and global market share of Cabin Temperature Sensors from 2021 to 2026.

Chapter 3, the Cabin Temperature Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cabin Temperature Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Cabin Temperature Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Cabin Temperature Sensors.

Chapter 14 and 15, to describe Cabin Temperature Sensors sales channel, distributors, customers, research findings and conclusion.

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