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Global Insertion Air Temperature Sensor Market Growth 2026-2032

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Abstracts

The global Insertion Air Temperature Sensor market size is predicted to grow from US$ 1746 million in 2025 to US$ 2557 million in 2032; it is expected to grow at a CAGR of 5.7% from 2026 to 2032.

In 2024, the global production of insertion air temperature sensors was approximately 15-20 million units, with an average selling price of approximately US$30-150 per unit and a gross profit margin of approximately 40%. Single-line production capacity was approximately 50,000-150,000 units per year. Insertion-type air temperature sensors are contact instruments that directly and accurately measure the temperature of gas in pipes or ducts by inserting a probe into the airflow through the pipe wall. The upstream mainly consists of suppliers of temperature-sensing elements such as platinum resistance thermometers and thermocouples, as well as chips and metal housing raw materials. The midstream consists of sensor manufacturers responsible for packaging, calibrating, and integrating the elements into transmitters to form complete products. The downstream is widely used in HVAC, industrial process control, energy management, and medical respiratory equipment. The core demand stems from the precise monitoring of process gas and compressed air temperatures in industrial production, the regulation of supply/return air temperatures in building energy conservation, and the real-time temperature measurement of various ventilation systems to ensure safe and efficient operation.

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

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Europe market for Insertion Air 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 Insertion Air Temperature Sensor players cover TE Connectivity, Omega Engineering, Biopac, Siemens, Honeywell, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

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

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

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

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Market Segmentation

Segmentation by Type:

Resistance Temperature Detector (RTD)

Thermocouple

Thermistor

Segmentation by Installation Structure:

Threaded Mounting Type

Flange Mounting Type

Compression Fitting Type

Segmentation by Application:

Industry

Energy

Pharmaceuticals

Other

This report also splits the market by region:

Americas

United States

Canada

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- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel

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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.

TE Connectivity

Omega Engineering

Biopac

Siemens

Honeywell

Dwyer Instruments

Schneider

Johnson Controls

Belimo

JUMO

MAMAC Systems

Danfoss

Omni Sensors and Transmitter

Automated Logic Corporation

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Insertion Air Temperature Sensor market?

What factors are driving Insertion Air Temperature Sensor market growth, globally and by region?

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

How do Insertion Air Temperature Sensor market opportunities vary by end market size?

How does Insertion Air Temperature Sensor break out by Type, by Application?

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