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Global Temperature and Freshness Sensors Market Growth 2026-2032

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Abstracts

The global Temperature and Freshness Sensors market size is predicted to grow from US$ 964 million in 2025 to US$ 2112 million in 2032; it is expected to grow at a CAGR of 12.1% from 2026 to 2032.

Temperature and freshness sensors are smart sensing devices used to monitor perishable goods such as food, beverages, and pharmaceuticals, by detecting temperature variations, humidity levels, gas emissions (CO?, ethylene, ammonia), or biochemical markers that indicate product freshness and spoilage risk. These sensors are commonly integrated into smart packaging, cold chain logistics, and IoT-based monitoring systems, ensuring quality control and regulatory compliance.In 2024, global production of temperature and freshness sensors reached approximately 320 million units, with an average global market price of around USD 2.8 per unit. The global annual production capacity was estimated at 400 million units, and the gross margin of leading manufacturers ranged between 30–45%, depending on sensor type and application sector.

United States market for Temperature and Freshness Sensors 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 Temperature and Freshness Sensors 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 Temperature and Freshness Sensors 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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Global key Temperature and Freshness Sensors players cover Freshpoint Quality Assurance Ltd., Insignia Technologies, SMARTRAC (Avery Dennison), Checkpoint Systems, Timestrip Ltd., 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 “Temperature and Freshness Sensors Industry Forecast” looks at past sales and reviews total world Temperature and Freshness Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Temperature and Freshness Sensors sales for 2026 through 2032. With Temperature and Freshness Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Temperature and Freshness Sensors industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Temperature and Freshness Sensors 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 Temperature and Freshness Sensors.

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

Market Segmentation

Segmentation by Type:

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Up to 1500C

1510C - 2500C

2510C - 5000C

5010C - 7500C

7510C - 10000C

Above 10000C

Segmentation by Application:

Automotive

Agriculture

Healthcare

Food and Beverage

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

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APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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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.

Freshpoint Quality Assurance Ltd.

Insignia Technologies

SMARTRAC (Avery Dennison)

Checkpoint Systems

Timestrip Ltd.

Varcode Ltd.

RipeSense

Amcor plc (smart packaging division)

3M (food safety sensors)

Abbott (pharmaceutical freshness monitoring)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Temperature and Freshness Sensors market?

What factors are driving Temperature and Freshness Sensors market growth, globally and by region?

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

How do Temperature and Freshness Sensors market opportunities vary by end market size?

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How does Temperature and Freshness Sensors break out by Type, by Application?

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