

Global Temperature and Freshness Sensors Market Research Report 2026(Status and Outlook)

<https://marketpublishers.com/r/GBCC3C9CECADEN.html>

Date: March 2026

Pages: 146

Price: US\$ 2,980.00 (Single User License)

ID: GBCC3C9CECADEN

Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Temperature and Freshness Sensors competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. 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 (CO₂, 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.

The global Temperature and Freshness Sensors market size was estimated at USD 896.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 11.70% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Temperature and Freshness Sensors market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Temperature and Freshness Sensors market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Temperature and Freshness Sensors market.

Global Temperature and Freshness Sensors Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

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)

Market Segmentation (by Type)

Up to 1500C

1510C - 2500C

2510C - 5000C

5010C - 7500C

7510C - 10000C

Above 10000C

Market Segmentation (by Application)

Automotive

Agriculture

Healthcare

Food and Beverage

Other

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Temperature and Freshness Sensors Market
Overview of the regional outlook of the Temperature and Freshness Sensors Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Temperature and Freshness Sensors Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential

of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Temperature and Freshness Sensors, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent

developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Temperature and Freshness Sensors
- 1.2 Key Market Segments
 - 1.2.1 Temperature and Freshness Sensors Segment by Type
 - 1.2.2 Temperature and Freshness Sensors Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 TEMPERATURE AND FRESHNESS SENSORS MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Temperature and Freshness Sensors Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Temperature and Freshness Sensors Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 TEMPERATURE AND FRESHNESS SENSORS MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Temperature and Freshness Sensors Product Life Cycle
- 3.3 Global Temperature and Freshness Sensors Sales by Manufacturers (2020-2025)
- 3.4 Global Temperature and Freshness Sensors Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Temperature and Freshness Sensors Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Temperature and Freshness Sensors Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Temperature and Freshness Sensors Market Competitive Situation and Trends

- 3.8.1 Temperature and Freshness Sensors Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest Temperature and Freshness Sensors Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

4 TEMPERATURE AND FRESHNESS SENSORS INDUSTRY CHAIN ANALYSIS

- 4.1 Temperature and Freshness Sensors Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF TEMPERATURE AND FRESHNESS SENSORS MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Temperature and Freshness Sensors Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Temperature and Freshness Sensors Market
- 5.7 ESG Ratings of Leading Companies

6 TEMPERATURE AND FRESHNESS SENSORS MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Temperature and Freshness Sensors Sales Market Share by Type (2020-2025)

6.3 Global Temperature and Freshness Sensors Market Size by Type (2020-2025)

6.4 Global Temperature and Freshness Sensors Price by Type (2020-2025)

7 TEMPERATURE AND FRESHNESS SENSORS MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Temperature and Freshness Sensors Market Sales by Application (2020-2025)

7.3 Global Temperature and Freshness Sensors Market Size (M USD) by Application (2020-2025)

7.4 Global Temperature and Freshness Sensors Sales Growth Rate by Application (2020-2025)

8 TEMPERATURE AND FRESHNESS SENSORS MARKET SALES BY REGION

8.1 Global Temperature and Freshness Sensors Sales by Region

8.1.1 Global Temperature and Freshness Sensors Sales by Region

8.1.2 Global Temperature and Freshness Sensors Sales Market Share by Region

8.2 Global Temperature and Freshness Sensors Market Size by Region

8.2.1 Global Temperature and Freshness Sensors Market Size by Region

8.2.2 Global Temperature and Freshness Sensors Market Size by Region

8.3 North America

8.3.1 North America Temperature and Freshness Sensors Sales by Country

8.3.2 North America Temperature and Freshness Sensors Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Temperature and Freshness Sensors Sales by Country

8.4.2 Europe Temperature and Freshness Sensors Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

- 8.5.1 Asia Pacific Temperature and Freshness Sensors Sales by Region
- 8.5.2 Asia Pacific Temperature and Freshness Sensors Market Size by Region
- 8.5.3 China Market Overview
- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Temperature and Freshness Sensors Sales by Country
 - 8.6.2 South America Temperature and Freshness Sensors Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Temperature and Freshness Sensors Sales by Region
 - 8.7.2 Middle East and Africa Temperature and Freshness Sensors Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 TEMPERATURE AND FRESHNESS SENSORS MARKET PRODUCTION BY REGION

- 9.1 Global Production of Temperature and Freshness Sensors by Region(2020-2025)
- 9.2 Global Temperature and Freshness Sensors Revenue Market Share by Region (2020-2025)
- 9.3 Global Temperature and Freshness Sensors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Temperature and Freshness Sensors Production
 - 9.4.1 North America Temperature and Freshness Sensors Production Growth Rate (2020-2025)
 - 9.4.2 North America Temperature and Freshness Sensors Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Temperature and Freshness Sensors Production
 - 9.5.1 Europe Temperature and Freshness Sensors Production Growth Rate (2020-2025)

9.5.2 Europe Temperature and Freshness Sensors Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Temperature and Freshness Sensors Production (2020-2025)

9.6.1 Japan Temperature and Freshness Sensors Production Growth Rate (2020-2025)

9.6.2 Japan Temperature and Freshness Sensors Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Temperature and Freshness Sensors Production (2020-2025)

9.7.1 China Temperature and Freshness Sensors Production Growth Rate (2020-2025)

9.7.2 China Temperature and Freshness Sensors Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Freshpoint Quality Assurance Ltd.

10.1.1 Freshpoint Quality Assurance Ltd. Basic Information

10.1.2 Freshpoint Quality Assurance Ltd. Temperature and Freshness Sensors Product Overview

10.1.3 Freshpoint Quality Assurance Ltd. Temperature and Freshness Sensors Product Market Performance

10.1.4 Freshpoint Quality Assurance Ltd. Business Overview

10.1.5 Freshpoint Quality Assurance Ltd. SWOT Analysis

10.1.6 Freshpoint Quality Assurance Ltd. Recent Developments

10.2 Insignia Technologies

10.2.1 Insignia Technologies Basic Information

10.2.2 Insignia Technologies Temperature and Freshness Sensors Product Overview

10.2.3 Insignia Technologies Temperature and Freshness Sensors Product Market Performance

10.2.4 Insignia Technologies Business Overview

10.2.5 Insignia Technologies SWOT Analysis

10.2.6 Insignia Technologies Recent Developments

10.3 SMARTRAC (Avery Dennison)

10.3.1 SMARTRAC (Avery Dennison) Basic Information

10.3.2 SMARTRAC (Avery Dennison) Temperature and Freshness Sensors Product Overview

10.3.3 SMARTRAC (Avery Dennison) Temperature and Freshness Sensors Product Market Performance

10.3.4 SMARTRAC (Avery Dennison) Business Overview

- 10.3.5 SMARTRAC (Avery Dennison) SWOT Analysis
- 10.3.6 SMARTRAC (Avery Dennison) Recent Developments
- 10.4 Checkpoint Systems
 - 10.4.1 Checkpoint Systems Basic Information
 - 10.4.2 Checkpoint Systems Temperature and Freshness Sensors Product Overview
 - 10.4.3 Checkpoint Systems Temperature and Freshness Sensors Product Market Performance
 - 10.4.4 Checkpoint Systems Business Overview
 - 10.4.5 Checkpoint Systems Recent Developments
- 10.5 Timestrip Ltd.
 - 10.5.1 Timestrip Ltd. Basic Information
 - 10.5.2 Timestrip Ltd. Temperature and Freshness Sensors Product Overview
 - 10.5.3 Timestrip Ltd. Temperature and Freshness Sensors Product Market Performance
 - 10.5.4 Timestrip Ltd. Business Overview
 - 10.5.5 Timestrip Ltd. Recent Developments
- 10.6 Varcod Ltd.
 - 10.6.1 Varcod Ltd. Basic Information
 - 10.6.2 Varcod Ltd. Temperature and Freshness Sensors Product Overview
 - 10.6.3 Varcod Ltd. Temperature and Freshness Sensors Product Market Performance
 - 10.6.4 Varcod Ltd. Business Overview
 - 10.6.5 Varcod Ltd. Recent Developments
- 10.7 RipeSense
 - 10.7.1 RipeSense Basic Information
 - 10.7.2 RipeSense Temperature and Freshness Sensors Product Overview
 - 10.7.3 RipeSense Temperature and Freshness Sensors Product Market Performance
 - 10.7.4 RipeSense Business Overview
 - 10.7.5 RipeSense Recent Developments
- 10.8 Amcor plc (smart packaging division)
 - 10.8.1 Amcor plc (smart packaging division) Basic Information
 - 10.8.2 Amcor plc (smart packaging division) Temperature and Freshness Sensors Product Overview
 - 10.8.3 Amcor plc (smart packaging division) Temperature and Freshness Sensors Product Market Performance
 - 10.8.4 Amcor plc (smart packaging division) Business Overview
 - 10.8.5 Amcor plc (smart packaging division) Recent Developments
- 10.9 3M (food safety sensors)
 - 10.9.1 3M (food safety sensors) Basic Information

10.9.2 3M (food safety sensors) Temperature and Freshness Sensors Product Overview

10.9.3 3M (food safety sensors) Temperature and Freshness Sensors Product Market Performance

10.9.4 3M (food safety sensors) Business Overview

10.9.5 3M (food safety sensors) Recent Developments

10.10 Abbott (pharmaceutical freshness monitoring)

10.10.1 Abbott (pharmaceutical freshness monitoring) Basic Information

10.10.2 Abbott (pharmaceutical freshness monitoring) Temperature and Freshness Sensors Product Overview

10.10.3 Abbott (pharmaceutical freshness monitoring) Temperature and Freshness Sensors Product Market Performance

10.10.4 Abbott (pharmaceutical freshness monitoring) Business Overview

10.10.5 Abbott (pharmaceutical freshness monitoring) Recent Developments

11 TEMPERATURE AND FRESHNESS SENSORS MARKET FORECAST BY REGION

11.1 Global Temperature and Freshness Sensors Market Size Forecast

11.2 Global Temperature and Freshness Sensors Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Temperature and Freshness Sensors Market Size Forecast by Country

11.2.3 Asia Pacific Temperature and Freshness Sensors Market Size Forecast by Region

11.2.4 South America Temperature and Freshness Sensors Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Temperature and Freshness Sensors by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Temperature and Freshness Sensors Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Temperature and Freshness Sensors by Type (2026-2035)

12.1.2 Global Temperature and Freshness Sensors Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Temperature and Freshness Sensors by Type (2026-2035)

12.2 Global Temperature and Freshness Sensors Market Forecast by Application (2026-2035)

12.2.1 Global Temperature and Freshness Sensors Sales (K Units) Forecast by Application

12.2.2 Global Temperature and Freshness Sensors Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Temperature and Freshness Sensors Market Size by Type (M USD)

Table 4. Global Temperature and Freshness Sensors Market Size by Application

Table 5. Temperature and Freshness Sensors Market Size Comparison by Region (M USD)

Table 6. Global Temperature and Freshness Sensors Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Temperature and Freshness Sensors Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Temperature and Freshness Sensors Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Temperature and Freshness Sensors Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Temperature and Freshness Sensors as of 2025)

Table 11. Global Market Temperature and Freshness Sensors Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Temperature and Freshness Sensors Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Temperature and Freshness Sensors Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Temperature and Freshness Sensors Sales by Type (K Units)

Table 27. Global Temperature and Freshness Sensors Market Size by Type (M USD)

Table 28. Global Temperature and Freshness Sensors Sales (K Units) by Type (2020-2025)

Table 29. Global Temperature and Freshness Sensors Sales Market Share by Type (2020-2025)

Table 30. Global Temperature and Freshness Sensors Market Size (M USD) by Type (2020-2025)

Table 31. Global Temperature and Freshness Sensors Market Share by Type (2020-2025)

Table 32. Global Temperature and Freshness Sensors Price (USD/Unit) by Type (2020-2025)

Table 33. Global Temperature and Freshness Sensors Sales (K Units) by Application

Table 34. Global Temperature and Freshness Sensors Market Size by Application

Table 35. Global Temperature and Freshness Sensors Sales by Application (2020-2025) & (K Units)

Table 36. Global Temperature and Freshness Sensors Sales Market Share by Application (2020-2025)

Table 37. Global Temperature and Freshness Sensors Market Size by Application (2020-2025) & (M USD)

Table 38. Global Temperature and Freshness Sensors Market Share by Application (2020-2025)

Table 39. Global Temperature and Freshness Sensors Sales Growth Rate by Application (2020-2025)

Table 40. Global Temperature and Freshness Sensors Sales by Region (2020-2025) & (K Units)

Table 41. Global Temperature and Freshness Sensors Sales Market Share by Region (2020-2025)

Table 42. Global Temperature and Freshness Sensors Market Size by Region (2020-2025) & (M USD)

Table 43. Global Temperature and Freshness Sensors Market Size by Region (2020-2025)

Table 44. North America Temperature and Freshness Sensors Sales by Country (2020-2025) & (K Units)

Table 45. North America Temperature and Freshness Sensors Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Temperature and Freshness Sensors Sales by Country (2020-2025) & (K Units)

Table 47. Europe Temperature and Freshness Sensors Market Size by Country (2020-2025) & (M USD)

- Table 48. Asia Pacific Temperature and Freshness Sensors Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Temperature and Freshness Sensors Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Temperature and Freshness Sensors Sales by Country (2020-2025) & (K Units)
- Table 51. South America Temperature and Freshness Sensors Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Temperature and Freshness Sensors Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Temperature and Freshness Sensors Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Temperature and Freshness Sensors Production (K Units) by Region(2020-2025)
- Table 55. Global Temperature and Freshness Sensors Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Temperature and Freshness Sensors Revenue Market Share by Region (2020-2025)
- Table 57. Global Temperature and Freshness Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America Temperature and Freshness Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 59. Europe Temperature and Freshness Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 60. Japan Temperature and Freshness Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 61. China Temperature and Freshness Sensors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 62. Freshpoint Quality Assurance Ltd. Basic Information
- Table 63. Freshpoint Quality Assurance Ltd. Temperature and Freshness Sensors Product Overview
- Table 64. Freshpoint Quality Assurance Ltd. Temperature and Freshness Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 65. Freshpoint Quality Assurance Ltd. Business Overview
- Table 66. Freshpoint Quality Assurance Ltd. SWOT Analysis
- Table 67. Freshpoint Quality Assurance Ltd. Recent Developments
- Table 68. Insignia Technologies Basic Information
- Table 69. Insignia Technologies Temperature and Freshness Sensors Product Overview

- Table 70. Insignia Technologies Temperature and Freshness Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 71. Insignia Technologies Business Overview
- Table 72. Insignia Technologies SWOT Analysis
- Table 73. Insignia Technologies Recent Developments
- Table 74. SMARTRAC (Avery Dennison) Basic Information
- Table 75. SMARTRAC (Avery Dennison) Temperature and Freshness Sensors Product Overview
- Table 76. SMARTRAC (Avery Dennison) Temperature and Freshness Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. SMARTRAC (Avery Dennison) Business Overview
- Table 78. SMARTRAC (Avery Dennison) SWOT Analysis
- Table 79. SMARTRAC (Avery Dennison) Recent Developments
- Table 80. Checkpoint Systems Basic Information
- Table 81. Checkpoint Systems Temperature and Freshness Sensors Product Overview
- Table 82. Checkpoint Systems Temperature and Freshness Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Checkpoint Systems Business Overview
- Table 84. Checkpoint Systems Recent Developments
- Table 85. Timestrip Ltd. Basic Information
- Table 86. Timestrip Ltd. Temperature and Freshness Sensors Product Overview
- Table 87. Timestrip Ltd. Temperature and Freshness Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Timestrip Ltd. Business Overview
- Table 89. Timestrip Ltd. Recent Developments
- Table 90. Varcodes Ltd. Basic Information
- Table 91. Varcodes Ltd. Temperature and Freshness Sensors Product Overview
- Table 92. Varcodes Ltd. Temperature and Freshness Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Varcodes Ltd. Business Overview
- Table 94. Varcodes Ltd. Recent Developments
- Table 95. RipeSense Basic Information
- Table 96. RipeSense Temperature and Freshness Sensors Product Overview
- Table 97. RipeSense Temperature and Freshness Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. RipeSense Business Overview
- Table 99. RipeSense Recent Developments
- Table 100. Amcor plc (smart packaging division) Basic Information
- Table 101. Amcor plc (smart packaging division) Temperature and Freshness Sensors

Product Overview

Table 102. Amcor plc (smart packaging division) Temperature and Freshness Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Amcor plc (smart packaging division) Business Overview

Table 104. Amcor plc (smart packaging division) Recent Developments

Table 105. 3M (food safety sensors) Basic Information

Table 106. 3M (food safety sensors) Temperature and Freshness Sensors Product Overview

Table 107. 3M (food safety sensors) Temperature and Freshness Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. 3M (food safety sensors) Business Overview

Table 109. 3M (food safety sensors) Recent Developments

Table 110. Abbott (pharmaceutical freshness monitoring) Basic Information

Table 111. Abbott (pharmaceutical freshness monitoring) Temperature and Freshness Sensors Product Overview

Table 112. Abbott (pharmaceutical freshness monitoring) Temperature and Freshness Sensors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Abbott (pharmaceutical freshness monitoring) Business Overview

Table 114. Abbott (pharmaceutical freshness monitoring) Recent Developments

Table 115. Global Temperature and Freshness Sensors Sales Forecast by Region (2026-2035) & (K Units)

Table 116. Global Temperature and Freshness Sensors Market Size Forecast by Region (2026-2035) & (M USD)

Table 117. North America Temperature and Freshness Sensors Sales Forecast by Country (2026-2035) & (K Units)

Table 118. North America Temperature and Freshness Sensors Market Size Forecast by Country (2026-2035) & (M USD)

Table 119. Europe Temperature and Freshness Sensors Sales Forecast by Country (2026-2035) & (K Units)

Table 120. Europe Temperature and Freshness Sensors Market Size Forecast by Country (2026-2035) & (M USD)

Table 121. Asia Pacific Temperature and Freshness Sensors Sales Forecast by Region (2026-2035) & (K Units)

Table 122. Asia Pacific Temperature and Freshness Sensors Market Size Forecast by Region (2026-2035) & (M USD)

Table 123. South America Temperature and Freshness Sensors Sales Forecast by Country (2026-2035) & (K Units)

Table 124. South America Temperature and Freshness Sensors Market Size Forecast

by Country (2026-2035) & (M USD)

Table 125. Middle East and Africa Temperature and Freshness Sensors Sales Forecast by Country (2026-2035) & (Units)

Table 126. Middle East and Africa Temperature and Freshness Sensors Market Size Forecast by Country (2026-2035) & (M USD)

Table 127. Global Temperature and Freshness Sensors Sales Forecast by Type (2026-2035) & (K Units)

Table 128. Global Temperature and Freshness Sensors Market Size Forecast by Type (2026-2035) & (M USD)

Table 129. Global Temperature and Freshness Sensors Price Forecast by Type (2026-2035) & (USD/Unit)

Table 130. Global Temperature and Freshness Sensors Sales (K Units) Forecast by Application (2026-2035)

Table 131. Global Temperature and Freshness Sensors Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Temperature and Freshness Sensors
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Temperature and Freshness Sensors Market Size (M USD), 2025-2035
- Figure 5. Global Temperature and Freshness Sensors Market Size (M USD) (2020-2035)
- Figure 6. Global Temperature and Freshness Sensors Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Temperature and Freshness Sensors Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Temperature and Freshness Sensors Product Life Cycle
- Figure 13. Temperature and Freshness Sensors Sales Share by Manufacturers in 2025
- Figure 14. Global Temperature and Freshness Sensors Revenue Share by Manufacturers in 2025
- Figure 15. Temperature and Freshness Sensors Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Temperature and Freshness Sensors Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Temperature and Freshness Sensors Revenue in 2025
- Figure 18. Industry Chain Map of Temperature and Freshness Sensors
- Figure 19. Global Temperature and Freshness Sensors Market PEST Analysis
- Figure 20. Global Temperature and Freshness Sensors Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Temperature and Freshness Sensors Market Share by Type
- Figure 27. Sales Market Share of Temperature and Freshness Sensors by Type (2020-2025)

Figure 28. Sales Market Share of Temperature and Freshness Sensors by Type in 2025

Figure 29. Market Share of Temperature and Freshness Sensors by Type (2020-2025)

Figure 30. Market Share of Temperature and Freshness Sensors by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Temperature and Freshness Sensors Market Share by Application

Figure 33. Global Temperature and Freshness Sensors Sales Market Share by Application (2020-2025)

Figure 34. Global Temperature and Freshness Sensors Sales Market Share by Application in 2025

Figure 35. Global Temperature and Freshness Sensors Market Share by Application (2020-2025)

Figure 36. Global Temperature and Freshness Sensors Market Share by Application in 2025

Figure 37. Global Temperature and Freshness Sensors Sales Growth Rate by Application (2020-2025)

Figure 38. Global Temperature and Freshness Sensors Sales Market Share by Region (2020-2025)

Figure 39. Global Temperature and Freshness Sensors Market Size by Region (2020-2025)

Figure 40. North America Temperature and Freshness Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Temperature and Freshness Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Temperature and Freshness Sensors Sales Market Share by Country in 2024

Figure 43. North America Temperature and Freshness Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Temperature and Freshness Sensors Market Size by Country in 2024

Figure 45. U.S. Temperature and Freshness Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Temperature and Freshness Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Temperature and Freshness Sensors Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Temperature and Freshness Sensors Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Temperature and Freshness Sensors Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Temperature and Freshness Sensors Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Temperature and Freshness Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Temperature and Freshness Sensors Sales Market Share by Country in 2024

Figure 53. Europe Temperature and Freshness Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Temperature and Freshness Sensors Market Size by Country in 2024

Figure 55. Germany Temperature and Freshness Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Temperature and Freshness Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Temperature and Freshness Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Temperature and Freshness Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Temperature and Freshness Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Temperature and Freshness Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Temperature and Freshness Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Temperature and Freshness Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Temperature and Freshness Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Temperature and Freshness Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Temperature and Freshness Sensors Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Temperature and Freshness Sensors Sales Market Share by Region in 2024

Figure 67. Asia Pacific Temperature and Freshness Sensors Market Size by Region in 2024

Figure 68. China Temperature and Freshness Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Temperature and Freshness Sensors Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 70. Japan Temperature and Freshness Sensors Sales and Growth Rate

(2020-2025) & (K Units)

Figure 71. Japan Temperature and Freshness Sensors Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 72. South Korea Temperature and Freshness Sensors Sales and Growth Rate

(2020-2025) & (K Units)

Figure 73. South Korea Temperature and Freshness Sensors Market Size and Growth

Rate (2020-2025) & (M USD)

Figure 74. India Temperature and Freshness Sensors Sales and Growth Rate

(2020-2025) & (K Units)

Figure 75. India Temperature and Freshness Sensors Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 76. Southeast Asia Temperature and Freshness Sensors Sales and Growth Rate

(2020-2025) & (K Units)

Figure 77. Southeast Asia Temperature and Freshness Sensors Market Size and

Growth Rate (2020-2025) & (M USD)

Figure 78. South America Temperature and Freshness Sensors Sales and Growth Rate

(K Units)

Figure 79. South America Temperature and Freshness Sensors Sales Market Share by
Country in 2024

Figure 80. South America Temperature and Freshness Sensors Market Size and

Growth Rate (M USD)

Figure 81. South America Temperature and Freshness Sensors Market Size by Country
in 2024

Figure 82. Brazil Temperature and Freshness Sensors Sales and Growth Rate

(2020-2025) & (K Units)

Figure 83. Brazil Temperature and Freshness Sensors Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 84. Argentina Temperature and Freshness Sensors Sales and Growth Rate

(2020-2025) & (K Units)

Figure 85. Argentina Temperature and Freshness Sensors Market Size and Growth

Rate (2020-2025) & (M USD)

Figure 86. Columbia Temperature and Freshness Sensors Sales and Growth Rate

(2020-2025) & (K Units)

Figure 87. Columbia Temperature and Freshness Sensors Market Size and Growth

Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Temperature and Freshness Sensors Sales and

Growth Rate (K Units)

Figure 89. Middle East and Africa Temperature and Freshness Sensors Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Temperature and Freshness Sensors Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Temperature and Freshness Sensors Market Size by Region in 2024

Figure 92. Saudi Arabia Temperature and Freshness Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Temperature and Freshness Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Temperature and Freshness Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Temperature and Freshness Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Temperature and Freshness Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Temperature and Freshness Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Temperature and Freshness Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Temperature and Freshness Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Temperature and Freshness Sensors Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Temperature and Freshness Sensors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Temperature and Freshness Sensors Production Market Share by Region (2020-2025)

Figure 103. North America Temperature and Freshness Sensors Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Temperature and Freshness Sensors Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Temperature and Freshness Sensors Production (K Units) Growth Rate (2020-2025)

Figure 106. China Temperature and Freshness Sensors Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Temperature and Freshness Sensors Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Temperature and Freshness Sensors Market Size Forecast by Value

(2020-2035) & (M USD)

Figure 109. Global Temperature and Freshness Sensors Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Temperature and Freshness Sensors Market Share Forecast by Type (2026-2035)

Figure 111. Global Temperature and Freshness Sensors Sales Forecast by Application (2026-2035)

Figure 112. Global Temperature and Freshness Sensors Market Share Forecast by Application (2026-2035)

I would like to order

Product name: Global Temperature and Freshness Sensors Market Research Report 2026(Status and Outlook)

Product link: <https://marketpublishers.com/r/GBCC3C9CECADEN.html>

Price: US\$ 2,980.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GBCC3C9CECADEN.html>