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Global Food Freshness Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Food Freshness Sensor market size was valued at US$ 700 million in 2025 and is forecast to a readjusted size of US$ 1288 million by 2032 with a CAGR of 9.2% during review period.

In 2025, global Food Freshness Sensor production reached approximately 800 million pieces, with an average global market price of around USD 0.85 per piece.

The gross profit margin of major companies in the industry is between 35%–55%.

In 2025, the global production capacity of Food Freshness Sensor was approximately 1.05 billion pieces.

Food Freshness Sensor is a smart sensing device used to monitor and evaluate food quality changes during storage, transportation, and retail processes. It detects freshness-related indicators such as volatile compounds, gases, temperature changes, pH variation, or microbial activity through chemical, optical, or electronic sensing technologies. The sensors are mainly applied in food packaging, cold chain logistics, supermarkets, and food safety monitoring systems. The product scope includes freshness indicators, intelligent labels, and integrated sensing devices, excluding general temperature sensors and conventional packaging materials.

The industry chain of Food Freshness Sensor includes upstream sensing materials, midstream sensor manufacturing, and downstream food monitoring applications. Upstream suppliers provide sensing materials, electronic components, substrates, and functional coatings. Midstream manufacturers conduct sensor design, fabrication,

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calibration, and integration into labels or monitoring devices. Downstream applications include food producers, logistics companies, retailers, and consumers requiring real-time food quality monitoring and safety management.

Report Scope

This report is a detailed and comprehensive analysis for global Food Freshness Sensor 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 Food Freshness Sensor market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Food Freshness Sensor 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 Food Freshness Sensor 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 Food Freshness Sensor 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 Food Freshness Sensor

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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 Food Freshness Sensor 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 TE Connectivity Ltd., Sensirion AG, Honeywell International Inc., Toshiba Corporation, Murata Manufacturing Co., Ltd., Analog Devices, Inc., Mettler-Toledo International Inc., Alpha MOS SA, Avery Dennison Corporation, Insignia Technologies Ltd., etc.

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

Food Freshness Sensor 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 Segmentation

Market segment by Type

Gas Sensor Based Freshness Sensor

Colorimetric Freshness Sensor

Biosensor Based Freshness Sensor

Market segment by Sensor Form Factor

Label Type Freshness Sensor

Portable Freshness Sensor

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Integrated Packaging Sensor

Market segment by Detection Range

Low Range Sensor (<10 ppm)

Medium Range Sensor (10–100 ppm)

High Range Sensor (>100 ppm)

Market segment by Application

Food Quality Tracking

Food Safety Management

Intelligent Monitoring

Other

Major players covered

TE Connectivity Ltd.

Sensirion AG

Honeywell International Inc.

Toshiba Corporation

Murata Manufacturing Co., Ltd.

Analog Devices, Inc.

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Mettler-Toledo International Inc.

Alpha MOS SA

Avery Dennison Corporation

Insignia Technologies Ltd.

Varcode Ltd.

Sensitech Inc.

Hangzhou Hikvision Digital Technology Co., Ltd.

Shanghai Fudan Microelectronics Group Co., Ltd.

Shenzhen Goodix Technology Co., Ltd.

Beijing Sino-Agricultural Yitong Technology Co., Ltd.

Nanjing King-Fresh Technology Co., Ltd.

Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences

Wuhan Huagong Laser Engineering Co., Ltd.

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

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Middle East & Africa)

Chapter Outline

Chapter 1, to describe Food Freshness Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Food Freshness Sensor, with price, sales quantity, revenue, and global market share of Food Freshness Sensor from 2021 to 2026.

Chapter 3, the Food Freshness Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Food Freshness Sensor 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 Food Freshness Sensor 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 Food Freshness Sensor.

Chapter 14 and 15, to describe Food Freshness Sensor sales channel, distributors, customers, research findings and conclusion.

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