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Global Food Freshness Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Food Freshness Sensor market size is expected to reach $ 1288 million by 2032, rising at a market growth of 9.2% CAGR during the forecast period (2026-2032).

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

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time food quality monitoring and safety management.

Report Scope

This report studies the global Food Freshness Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Food Freshness Sensor and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Food Freshness Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Food Freshness Sensor total production and demand, 2021-2032, (K Units)

Global Food Freshness Sensor total production value, 2021-2032, (USD Million)

Global Food Freshness Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Food Freshness Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Food Freshness Sensor domestic production, consumption, key domestic manufacturers and share

Global Food Freshness Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Food Freshness Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Food Freshness Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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This report profiles key players in the global Food Freshness Sensor market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Food Freshness Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Food Freshness Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

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India

Rest of World

Market Segmentation

Global Food Freshness Sensor Market, Segmentation by Type:

Gas Sensor Based Freshness Sensor

Colorimetric Freshness Sensor

Biosensor Based Freshness Sensor

Global Food Freshness Sensor Market, Segmentation by Sensor Form Factor:

Label Type Freshness Sensor

Portable Freshness Sensor

Integrated Packaging Sensor

Global Food Freshness Sensor Market, Segmentation by Detection Range:

Low Range Sensor (<10 ppm)

Medium Range Sensor (10–100 ppm)

High Range Sensor (>100 ppm)

Global Food Freshness Sensor Market, Segmentation by Application:

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Food Quality Tracking

Food Safety Management

Intelligent Monitoring

Other

Companies Profiled:

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.

Varcode Ltd.

Sensitech Inc.

Hangzhou Hikvision Digital Technology Co., Ltd.

Shanghai Fudan Microelectronics Group Co., Ltd.

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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.

Key Questions Answered:

1. How big is the global Food Freshness Sensor market?
2. What is the demand of the global Food Freshness Sensor market?
3. What is the year over year growth of the global Food Freshness Sensor market?
4. What is the production and production value of the global Food Freshness Sensor market?
5. Who are the key producers in the global Food Freshness Sensor market?
6. What are the growth factors driving the market demand?

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