

# **Refrigeration Monitoring Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Offering [Hardware (Sensors, IoT Devices, Networking Devices, Monitoring Meter, Display, Thermistors, and Others), Software, and Service], Industry (Food and Beverages, Healthcare, Chemicals, and Others), Application (Storage, Transportation, Inventory Protection, and Others), Monitoring Types (Real-Time Temperature Tracking, Data Logging and Analysis, Energy Management, Product Freshness Monitoring, and Others), and Geography**

<https://marketpublishers.com/r/R1FF85869342EN.html>

Date: March 2025

Pages: 235

Price: US\$ 4,450.00 (Single User License)

ID: R1FF85869342EN

## **Abstracts**

The refrigeration monitoring market size was valued at US\$ 9.04 billion in 2024 and is expected to reach US\$ 15.42 billion by 2031; it is estimated to record a CAGR of 8.3% from 2025 to 2031.

Refrigeration monitoring systems are essential for upholding safety standards in the food and pharmaceutical sectors. They guarantee products are stored at optimal temperatures, mitigating the risk of spoilage and contamination. According to recent Centers for Disease Control and Prevention figures, ~48 million individuals in the US (1 in 6) become ill, 128,000 are hospitalized, and 3,000 die each year as a result of foodborne illnesses. Thus, implementing refrigeration monitoring systems enables businesses to comply with the rigorous standards set by the Food and Drug

Administration (FDA) and other regulatory authorities. These organizations establish precise guidelines to ensure the safe storage and handling of perishable goods, such as food and pharmaceuticals. For example, the FDA's Food Safety Modernization Act (FSMA) emphasizes preventive measures to avoid foodborne illnesses, prioritizing proactive actions over-reactive responses to outbreaks. Moreover, Hazard Analysis and Critical Control Point (HACCP) guidelines provide a systematic method for identifying and addressing temperature-related hazards, emphasizing the significance of exact temperature control in maintaining food safety.

The EU has introduced a farm-to-fork approach to food safety, which means that regulations apply throughout the entire food chain. Food firms must take the necessary safeguards to ensure their products' safety, integrity, and quality along the supply chain. This comprises food company registration and product traceability, as well as premarket registration of some regulated items such as food additives, enzymes, and genetically modified food. Further, the EU Good Distribution Practice (GDP) guideline refers to the basic requirements that a wholesale distributor must achieve to ensure that the quality and integrity of medicines are maintained throughout the supply chain. Due to the above instances, refrigeration monitoring plays a critical role in ensuring safety in the food and pharma industries, and players are deploying it. For example, NewCold's has an automated cold storage warehouse in Corby, UK, which exemplifies the future of the cold chain industry. This facility stores and manages 151,000 pallets of frozen food using robots and reduced oxygen environments to prevent fires, highlighting the trend toward automation and efficiency in cold storage operations. Thus, the critical application of refrigeration monitoring across food and pharma industries drives the market growth.

Danfoss AS, TE Connectivity Ltd., KoolZone Ltd., Copeland LP, Samsara Inc, ORBCOMM Inc, Monnit Corporation, Tek Troniks Limited, Berlinger & Co. AG, Dickson Data, Sensaphone, Vaisala Oyj, OneEvent Technologies, Kitchen Brains, Swift Sensors are among the key refrigeration monitoring market players that are profiled in this market study.

The overall refrigeration monitoring market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the refrigeration monitoring market size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business

development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the refrigeration monitoring market.

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