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Temperature Data Logger Market by Type (USB, Bluetooth, Wireless (Web-based, Cloud-based, IoT-based, Battery-operated)), Configuration (Standalone, Connected), Utility (Single-use, Reusable) and Region - Global Forecast to 2030

https://marketpublishers.com/r/TDBDA84081ACEN.html
Date: May 2025
Pages: 159
Price: US$ 4,950.00 (Single User License)
ID: TDBDA84081ACEN

Abstracts

The global temperature data logger market is projected to grow from USD 529.0 million in 2025 to USD 701.1 million in 2030 at a CAGR of 5.8% during the forecast period. The temperature data logger market is experiencing tremendous growth due to the growing need for real-time, precise temperature measurement in key industries such as pharmaceuticals, food & beverage, chemicals, and logistics. Strict regulations by organizations such as the FDA, WHO, and EU Good Distribution Practices (GDP) require temperature monitoring of sensitive commodities, particularly vaccines and biologics, with stringent cold chain requirements. This regulatory momentum has contributed to the broad acceptance of temperature data loggers across transportation and storage uses.

“Standalone segment to contribute a significant share to the temperature data logger market.”

Standalone temperature data loggers are necessary for applications where simplicity, portability, and cost-effectiveness are prioritized over real-time monitoring. In environmental monitoring, they track temperature trends in remote locations, including weather stations, agricultural fields, and ecological studies. They are also utilized in building and facility management to monitor HVAC systems, warehouses, and data centers for efficiency and safety. In industrial processes, standalone loggers are employed to track temperature in ovens, kilns, and freezers to ensure quality control. Additionally, they are crucial in research and laboratory settings for monitoring

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experiments, sample storage, and clinical trials, as well as in food safety compliance for verifying storage conditions in restaurants and retail outlets. Their battery-operated design, durability, and ease of use make them indispensable for scenarios requiring reliable temperature tracking without real-time connectivity.

“Adoption of temperature data loggers in the food & beverage industry to grow significantly.”

In the food & beverage industry, proper temperature control is crucial in preserving the quality, safety, and freshness of perishable goods such as dairy, meat, seafood, frozen foods, and beverages. Due to increasing consumer awareness regarding food safety and the implementation of strict food safety regulations such as Hazard Analysis Critical Control Point (HACCP) and Food Safety Modernization Act (FSMA), temperature data loggers have become a necessity. They are crucial for monitoring storage and transportation conditions to ensure products are within specified temperature ranges, thus preventing spoilage and contamination. Temperature logging technology has advanced to include Bluetooth and other technologies, improving traceability and real-time monitoring in food supply chains. This has become crucial in dealing with global food waste concerns because proper monitoring can significantly reduce spoilage. Companies such as T&D Corporation and DeltaTrak have developed temperature data loggers specifically for the food & beverage industry, providing solutions for refrigerated transportation and cold storage. Moreover, the trend of online grocery shopping and meal delivery services has increased the demand for temperature-controlled logistics, which in turn is increasing the adoption of data loggers in this sector. The food & beverage industry will remain a key market for temperature data loggers with the increase in global food trade and consumer expectations for high-quality products.

“The US is projected to dominate the temperature data logger market.”

The US is poised to dominate the global temperature data logger market due to strong industrial infrastructure, regulatory enforcement, and technological leadership. One of the primary drivers is the country’s stringent regulatory environment, particularly in the pharmaceutical, healthcare, and food sectors. Agencies such as the FDA and CDC impose strict guidelines on temperature-sensitive products, requiring continuous monitoring and documentation, which fuels the widespread adoption of advanced data loggers. Moreover, the US is a global pharmaceutical and biotechnology research and manufacturing hub. With increasing demand for biologics, vaccines, and temperature-sensitive therapies, there is a growing need for reliable temperature tracking across production, storage, and distribution chains. The nation also has a highly developed

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cold chain logistics network, boosting demand for data logger solutions. Technological innovation is another critical factor. The US is home to leading data logger manufacturers and IoT developers, continuously integrating wireless, AI, and cloud-based technologies into monitoring systems. These advancements support real-time analytics and remote access, enhancing operational efficiency and compliance. In addition, rising consumer awareness about food and drug safety and the expansion of e-commerce and medical device logistics position the US as a dominant force in the temperature data logger market.

In-depth interviews have been conducted with Chief Executive Officers (CEOs), Directors, and other executives from various key organizations operating in the temperature data logger market.

By Company Type: Tier 1 - 42%, Tier 2 - 37%, and Tier 3 - 21%

By Designation: C-level Executives - 48%, Directors - 33%, and Others - 19%

By Region: North America - 35%, Europe - 18%, Asia Pacific - 40%, and RoW - 7%

The study includes an in-depth competitive analysis of key players in the temperature data logger market, with their company profiles, recent developments, and key market strategies. Players include Onset Computer Corporation (US), HIOKI E.E. Corporation (Japan), Testo SE & Co. KGaA (Germany), ELPRO-BUCHS AG (Switzerland), Dickson (US), Sensitech Inc(US), Vaisala (Finland), Signatrol (UK), Gemini Data Loggers (UK), Ebro Electronics (Germany), CAS Dataloggers (US), KIMO Electronics Pvt (India), DeltaTrak (US), Omega Engineering Inc (US), and GAO TEK & GAO GROUP INC. (US).

Research Coverage

This research report categorizes the temperature data logger market by type, utility, configuration, industry, and region (North America, Europe, and Asia Pacific). The report scope covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the temperature data logger market. A detailed analysis of the key industry players has provided insights into their business overview, solutions and services, and key strategies, such as contracts, partnerships, agreements, new product and service launches, acquisitions, and other

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recent developments associated with the temperature data logger market. This report covers a competitive analysis of upcoming temperature data logger market startups.

Reasons To Buy This Report

The report will help market leaders and new entrants with information on the closest approximations of the revenue numbers for the temperature data logger market and subsegments. It will also help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (increasing penetration of temperature data loggers in pharmaceutical and medical device industries, stringent monitoring requirements in the food & beverage and cold chain logistics sector, increasing adoption of Industry 4.0, wireless connectivity, and IoT, demand for environmental monitoring applications), restraints (high initial cost involved in advanced data loggers, complexities in deployment and integration), opportunities (incorporation of temperature control systems in food safety management, Supportive government initiatives & funding for IoT projects that require temperature measuring devices), and challenges (stringent performance requirements for advanced applications, data security concerns) influencing the growth of the temperature data logger market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the temperature data logger market

Market Development: Comprehensive information about lucrative markets–the report analyses the temperature data logger market across varied regions

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the temperature data logger market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players in the temperature data

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logger market, such as Onset Computer Corporation (US), HIOKI E.E. Corporation (Japan), Testo SE & Co. KGaA (Germany), ELPRO-BUCHS AG (Switzerland), and Dickson (US).

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