

Global Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers 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 Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers market size was valued at US\$ 1564 million in 2025 and is forecast to a readjusted size of US\$ 2681 million by 2032 with a CAGR of 7.9% during review period.

Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers are electronic sensing, recording and traceability devices used across temperature-controlled supply chains to monitor the environmental conditions of sensitive goods, packaging units, pallets, refrigerated assets, cold rooms, medical refrigerators and transport containers. These products integrate temperature and relative humidity sensors with time-stamped data storage, alarm thresholds, calibration records, PDF/CSV reporting, wireless communication, location tracking and, in many cases, additional sensors for light, shock, tilt, door opening or external probes. The category covers single-use USB/PDF loggers, reusable temperature and humidity data loggers, BLE/NFC/QR/Rfid smart logging labels, cellular or LPWAN real-time shipment trackers, LoRaWAN/Wi-Fi cold storage monitoring terminals and validated monitoring hardware used in pharmaceutical, vaccine, biologics, clinical sample, food, fresh produce, floral, chemical and other temperature-sensitive logistics workflows. The research scope focuses on hardware devices and hardware-bound services that create auditable digital records for quality release, compliance documentation, excursion investigation and supply chain visibility.

Based on our research, the cold chain temperature and humidity tracker market should

be understood as a market for auditable quality-evidence devices rather than a simple GPS tracking market. Passive USB/PDF data loggers remain essential because they offer low-cost shipment-level evidence and are easy to deploy at scale for food, fresh produce, pharmaceuticals and cross-border shipments. Reusable Bluetooth, NFC, QR and RFID loggers improve operating efficiency by enabling faster readout, cloud upload and lower manual handling. Cellular and LPWAN real-time trackers add a different value proposition: they allow intervention during transit by combining environmental data with location, light, shock, tilt and door-opening events. The core boundary of this industry is therefore not whether a device has location tracking, but whether it can create traceable, time-stamped and auditable records for quality release, deviation investigation, claims handling and regulatory compliance.

Demand is split between high-volume, cost-sensitive food applications and high-value, compliance-intensive pharmaceutical applications. Food, fresh produce, seafood, dairy and floral logistics drive large volumes of single-use and low-cost reusable loggers, while biologics, vaccines, insulin, GLP-1 drugs, cell and gene therapies, clinical trial samples and ultra-low-temperature shipments support higher ASP devices with calibration, validation, external probes, dry ice capability, secure reporting and data integrity features. This dual demand structure explains why the industry is unlikely to consolidate into one dominant product form. Instead, single-use USB/PDF loggers, reusable Bluetooth loggers, QR/RFID smart labels, cellular trackers and fixed cold-storage monitoring terminals will continue to coexist across different price bands and risk levels.

From a product roadmap perspective, the industry is moving from post-arrival documentation to real-time exception management and automated quality release. Traditional PDF loggers will remain relevant because they are inexpensive, familiar and sufficient for many shipment acceptance workflows. However, high-value and high-risk lanes increasingly require real-time data, early alerts, global connectivity, API integration, shipment-level dashboards and automated release documentation. Product development is shifting toward multi-sensor integration, longer battery life, airline-compliant designs, lower-cost smart labels, cloud-native reporting, reusable device operations and improved sustainability. Competition will therefore be shaped not only by sensor accuracy, but also by connectivity reliability, data integrity, enterprise integration, reverse logistics and the ability to support regulated customers at global scale.

Growth is supported by pharmaceutical GDP/GxP compliance, food safety documentation, cross-border fresh logistics, lower-cost IoT connectivity and the increasing need to allocate responsibility across fragmented logistics chains. Price

pressure in low-end single-use loggers and the integration of telemetry into refrigerated transport assets will limit part of the upside. Even so, independent shipment-level devices retain strong evidentiary value in multi-carrier, multi-node cold chains, which should support continued market expansion.

This report is a detailed and comprehensive analysis for global Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers 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 Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers market shares of main players, shipments in revenue (\$ Million), sales quantity (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 Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers

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 Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers 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 Thermo Fisher Scientific Inc., Carrier Global Corporation, Copeland LP, Vaisala Oyj, Testo SE & Co. KGaA, Digi International Inc., Controlant hf., ELPRO-BUCHS AG, DeltaTrak Inc., Tive Inc., etc.

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

Market Segmentation

Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers 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 segment by Type

Data Logger

Real-time Tracker

Other

Market segment by Usage Mode

Single-use

Reusable

Other

Market segment by Temperature Range

Frozen Range

Refrigerated Range

Controlled Room Temperature

Ultra-low Temperature

Other

Market segment by Compliance Level

Basic Monitoring Grade

Calibrated Grade

GDP / GxP Grade

Other

Market segment by Application

Shipment Monitoring

Storage Monitoring

Other

Major players covered

Thermo Fisher Scientific Inc.

Carrier Global Corporation

Copeland LP

Vaisala Oyj

Testo SE & Co. KGaA

Digi International Inc.

Controlant hf.

ELPRO-BUCHS AG

DeltaTrak Inc.

Tive Inc.

TSS AB

LogTag Recorders Ltd.

Onset Computer Corporation

tempmate GmbH

TempSen Electronics

Zhengzhou Freshliance Electronics Corp., Ltd.

Jiangsu Jingchuang Electric Co., Ltd.

Rotronic AG

Dickson Data

Lascar Electronics Ltd.

MadgeTech Inc.

Cryopak Digital

Logmore Oy

SpotSee

Eupry ApS

Ellab A/S

JRI

SenseAnywhere B.V.

ebro Electronic GmbH

Gemini Data Loggers

Tecnosoft S.r.l.

CAEN RFID S.r.l.

Tzone Digital Technology Co., Ltd.

Milesight IoT Co., Ltd.

TOPFLYtech Co., Ltd.

T&D Corporation

Monnit Corporation

SensoScientific

Swift Sensors

Ubibot

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 Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers, with price, sales quantity, revenue, and global market share of Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers from 2021 to 2026.

Chapter 3, the Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers 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 Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers 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 Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers.

Chapter 14 and 15, to describe Cold Chain Temperature & Humidity Monitoring Data Loggers and Real-Time Trackers sales channel, distributors, customers, research findings and conclusion.

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Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source

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