

Global Furnace Temperature Profile Recorder 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 Furnace Temperature Profile Recorder market size was valued at US\$ 331 million in 2025 and is forecast to a readjusted size of US\$ 557 million by 2032 with a CAGR of 7.8% during review period.

A furnace temperature profile recorder is a multi-channel temperature data acquisition device used to measure the actual temperature-time curve of workpieces in equipment such as reflow ovens, tunnel furnaces, coating curing ovens, and heat treatment furnaces. It typically consists of a high-temperature resistant data logging host, multiple thermocouple probes, and accompanying analysis software. During the production process, the recorder and the workpiece pass through the furnace together, collecting temperature-time data from each measurement point in real time. After exiting the furnace, the data is imported into a computer to generate a furnace temperature curve and automatically calculate key process parameters such as preheating time, reflow peak temperature, holding time, and curing time. This is used for process debugging, quality verification, and process monitoring to ensure that the welding, curing, or heat treatment process is under control. Sales in 2025 are projected at 150,000 units, with an average price of \$1980. Production capacity is 180,000 units, and the gross profit margin is 45%.

As manufacturing evolves towards digitalization, lean manufacturing, and quality traceability, the rigid demand for precise temperature control and traceable records in processes such as high-temperature heat treatment, welding, sintering, and glass/ceramic manufacturing continues to grow. Furnace temperature curve recorders, as critical process control tools, are applied in heat treatment furnaces, tempering furnaces, sintering furnaces, and annealing furnaces. Their application not only affects

the mechanical properties, internal structure, and dimensional stability of the final product but also directly impacts product consistency and traceability. In quality certifications (such as ISO/TS, IATF 16949, etc.) and customer factory audits, temperature curve recording serves as a core verification document, and its irreplaceable nature ensures steady market demand for such equipment.

Traditional furnace temperature curve recorders rely more on single-channel independent recorders, while the current market competition is evolving towards multi-channel data acquisition, real-time remote monitoring, edge computing, and cloud-based analysis platforms. Users are demanding higher capabilities in real-time alarms, cloud data storage, trend analysis, and production process optimization, making the upgrade from 'simply recording temperature' to 'intelligent temperature management platform' a trend. Manufacturers with IoT connectivity, mobile viewing capabilities, automatic alarms, and standardized report output capabilities have greater bargaining power in bidding and long-term operation and maintenance services, thereby increasing the overall added value and market share of their equipment.

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

Global Furnace Temperature Profile Recorder 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 Furnace Temperature Profile Recorder 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 Furnace Temperature Profile Recorder 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 Furnace Temperature Profile Recorder

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 Furnace Temperature Profile Recorder 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 Fluke Process Instruments, KIC Thermal, Watlow, ECD, SolderStar Ltd., PhoenixTM Ltd, Grant Instruments, HIOKI E.E. Corporation, TempControl GmbH, Elcometer, etc.

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

Market Segmentation

Furnace Temperature Profile Recorder 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

Single Channel

Multi-channel

Market segment by Contact Type

Contact-Type Furnace Temperature Logger

Non-Contact Furnace Temperature Logger

Market segment by Temperature

Medium-Temperature Type (200–300°C)

High-Temperature Type (300–1200°C)

Ultra-High-Temperature Type (>1200°C)

Market segment by Application

Electronics Manufacturing

Automotive Industry

Metal Heat Treatment

Others

Major players covered

Fluke Process Instruments

KIC Thermal

Watlow

ECD

SolderStar Ltd.

PhoenixTM Ltd

Grant Instruments

HIOKI E.E. Corporation

TempControl GmbH

Elcometer

Nanmac Corporation

Delta Electronics, Inc.

ThermoWorks

Dwyer Instruments, LLC

Heaters Controls And Sensors LTD.

DeFelsko

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 Furnace Temperature Profile Recorder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Furnace Temperature Profile Recorder, with price, sales quantity, revenue, and global market share of Furnace Temperature Profile Recorder from 2021 to 2026.

Chapter 3, the Furnace Temperature Profile Recorder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Furnace Temperature Profile Recorder 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 Furnace Temperature Profile Recorder 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 Furnace Temperature Profile Recorder.

Chapter 14 and 15, to describe Furnace Temperature Profile Recorder sales channel, distributors, customers, research findings and conclusion.

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