

# Global Furnace Temperature Profile Recorder Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Furnace Temperature Profile Recorder market size is expected to reach \$ 557 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

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 studies the global Furnace Temperature Profile Recorder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Furnace Temperature Profile Recorder 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 Furnace Temperature Profile Recorder that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Furnace Temperature Profile Recorder total production and demand, 2021-2032, (K Units)

Global Furnace Temperature Profile Recorder total production value, 2021-2032, (USD Million)

Global Furnace Temperature Profile Recorder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Furnace Temperature Profile Recorder consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Furnace Temperature Profile Recorder domestic production, consumption, key domestic manufacturers and share

Global Furnace Temperature Profile Recorder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Furnace Temperature Profile Recorder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Furnace Temperature Profile Recorder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Furnace Temperature Profile Recorder 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Furnace Temperature Profile Recorder 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 Furnace Temperature Profile Recorder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Furnace Temperature Profile Recorder Market, Segmentation by Type:

Single Channel

Multi-channel

Global Furnace Temperature Profile Recorder Market, Segmentation by Contact Type:

Contact-Type Furnace Temperature Logger

Non-Contact Furnace Temperature Logger

Global Furnace Temperature Profile Recorder Market, Segmentation by Temperature:

Medium-Temperature Type (200–300°C)

High-Temperature Type (300–1200°C)

Ultra-High-Temperature Type (>1200°C)

Global Furnace Temperature Profile Recorder Market, Segmentation by Application:

Electronics Manufacturing

Automotive Industry

Metal Heat Treatment

Others

**Companies Profiled:**

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

**Key Questions Answered:**

1. How big is the global Furnace Temperature Profile Recorder market?
2. What is the demand of the global Furnace Temperature Profile Recorder market?
3. What is the year over year growth of the global Furnace Temperature Profile

Recorder market?

4. What is the production and production value of the global Furnace Temperature Profile Recorder market?
5. Who are the key producers in the global Furnace Temperature Profile Recorder market?
6. What are the growth factors driving the market demand?

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