

# Global Furnace Temperature Profile Recorder Market Growth 2026-2032

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## Abstracts

The global Furnace Temperature Profile Recorder market size is predicted to grow from US\$ 315 million in 2025 to US\$ 545 million in 2032; it is expected to grow at a CAGR of 8.3% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the “Furnace Temperature Profile Recorder Industry Forecast” looks at past sales and reviews total world Furnace Temperature Profile Recorder sales in 2025, providing a comprehensive analysis by region and market sector of projected Furnace Temperature Profile Recorder sales for 2026 through 2032. With Furnace Temperature Profile Recorder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Furnace Temperature Profile Recorder industry.

This Insight Report provides a comprehensive analysis of the global Furnace Temperature Profile Recorder landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Furnace Temperature Profile Recorder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Furnace Temperature Profile Recorder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Furnace Temperature Profile Recorder and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Furnace Temperature Profile

Recorder.

This report presents a comprehensive overview, market shares, and growth opportunities of Furnace Temperature Profile Recorder market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single Channel

Multi-channel

Segmentation by Contact Type:

Contact-Type Furnace Temperature Logger

Non-Contact Furnace Temperature Logger

Segmentation by Temperature:

Medium-Temperature Type (200–300°C)

High-Temperature Type (300–1200°C)

Ultra-High-Temperature Type (>1200°C)

Segmentation by Application:

Electronics Manufacturing

Automotive Industry

Metal Heat Treatment

Others

This report also splits the market by region:

### Americas

United States

Canada

Mexico

Brazil

### APAC

China

Japan

Korea

Southeast Asia

India

Australia

### Europe

Germany

France

UK

Italy

Russia

### Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Furnace Temperature Profile Recorder market?

What factors are driving Furnace Temperature Profile Recorder market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Furnace Temperature Profile Recorder market opportunities vary by end market size?

How does Furnace Temperature Profile Recorder break out by Type, by Application?

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