

Global Temperature Profiling Recorder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Temperature Profiling Recorder market size is expected to reach \$ 132 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

In 2025, global sales of Temperature Profiling Recorder reached approximately 35,000–45,000 units, with an average market price of about USD 1,500–2,000 unit, an annual production capacity of roughly 38,000–48,000 units, and an industry-average gross margin of approximately 28%.

A Temperature Profiling Recorder, also referred to as a thermal profiler, oven temperature data logger, furnace tracker or temperature profiling system, is a specialized measurement device used to capture time-temperature profiles in real industrial heating processes. A typical system consists of a multi-channel data logger, thermocouples, thermal barrier or insulation box, fixtures, communication modules and dedicated profiling software. It travels together with a product, test board, carrier or fixture through reflow ovens, wave soldering machines, vapor phase soldering systems, curing ovens, heat-treatment furnaces, kilns, baking ovens, laminators and other batch or continuous thermal processing equipment. The system records the actual thermal exposure experienced by the product and generates key process indicators such as peak temperature, ramp rate, dwell time, time above liquidus, cooling rate, temperature uniformity, process window index and traceable process reports. It is mainly used in electronics assembly, semiconductor packaging, automotive components, aerospace heat treatment, powder coating, food processing, ceramics, glass, photovoltaics and lithium battery manufacturing.

This report studies the global Temperature Profiling Recorder production, demand, key

manufacturers, and key regions.

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

Highlights and key features of the study

Global Temperature Profiling Recorder total production and demand, 2021-2032, (Units)

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

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

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

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

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

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

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

This report profiles key players in the global Temperature Profiling 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, ECD, PhoenixTM, Solderstar Ltd, Industrial Physics, Malcom Co., Ltd., TMI-Orion MMS, Shenzhen Toprie Electronics, Shenzhen Topcity Electronics, 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 Temperature Profiling Recorder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Temperature Profiling Recorder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Temperature Profiling Recorder Market, Segmentation by Type:

Low-to-medium Temperature Systems below 300°C

Medium Temperature Systems 300–600°C

High Temperature Systems 600–1,100°C

Global Temperature Profiling Recorder Market, Segmentation by Channel Count:

1–3 Channel Recorders

4–6 Channel Recorders

7–12 Channel Recorders

13–20 Channel Recorders

Above 20 Channel Systems

Global Temperature Profiling Recorder Market, Segmentation by Application:

Electronics

Semiconductor

Others

Companies Profiled:

Fluke Process Instruments

KIC Thermal

ECD

PhoenixTM

Solderstar Ltd

Industrial Physics

Malcom Co., Ltd.

TMI-Orion MMS

Shenzhen Toprie Electronics

Shenzhen Topcity Electronics

Suzhou Temas Precision Instrument

Shenzhen Sunmenta Electronics

BESTEMP

Suzhou Ruisimi Electronic

Beijing Zhongyi Tianxin

Changzhou Jinko / JAI Lian

Suzhou Zhongtian Keyi

Suzhou Leien Testing Instrument

Mesa Labs / DataTrace

Ellab A/S

Key Questions Answered:

1. How big is the global Temperature Profiling Recorder market?
2. What is the demand of the global Temperature Profiling Recorder market?
3. What is the year over year growth of the global Temperature Profiling Recorder market?
4. What is the production and production value of the global Temperature Profiling Recorder market?
5. Who are the key producers in the global Temperature Profiling Recorder market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Temperature Profiling Recorder Introduction
- 1.2 World Temperature Profiling Recorder Supply & Forecast
 - 1.2.1 World Temperature Profiling Recorder Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Temperature Profiling Recorder Production (2021-2032)
 - 1.2.3 World Temperature Profiling Recorder Pricing Trends (2021-2032)
- 1.3 World Temperature Profiling Recorder Production by Region (Based on Production Site)
 - 1.3.1 World Temperature Profiling Recorder Production Value by Region (2021-2032)
 - 1.3.2 World Temperature Profiling Recorder Production by Region (2021-2032)
 - 1.3.3 World Temperature Profiling Recorder Average Price by Region (2021-2032)
 - 1.3.4 North America Temperature Profiling Recorder Production (2021-2032)
 - 1.3.5 Europe Temperature Profiling Recorder Production (2021-2032)
 - 1.3.6 China Temperature Profiling Recorder Production (2021-2032)
 - 1.3.7 Japan Temperature Profiling Recorder Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Temperature Profiling Recorder Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Temperature Profiling Recorder Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Temperature Profiling Recorder Demand (2021-2032)
- 2.2 World Temperature Profiling Recorder Consumption by Region
 - 2.2.1 World Temperature Profiling Recorder Consumption by Region (2021-2026)
 - 2.2.2 World Temperature Profiling Recorder Consumption Forecast by Region (2027-2032)
- 2.3 United States Temperature Profiling Recorder Consumption (2021-2032)
- 2.4 China Temperature Profiling Recorder Consumption (2021-2032)
- 2.5 Europe Temperature Profiling Recorder Consumption (2021-2032)
- 2.6 Japan Temperature Profiling Recorder Consumption (2021-2032)
- 2.7 South Korea Temperature Profiling Recorder Consumption (2021-2032)
- 2.8 ASEAN Temperature Profiling Recorder Consumption (2021-2032)
- 2.9 India Temperature Profiling Recorder Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Temperature Profiling Recorder Production Value by Manufacturer (2021-2026)
- 3.2 World Temperature Profiling Recorder Production by Manufacturer (2021-2026)
- 3.3 World Temperature Profiling Recorder Average Price by Manufacturer (2021-2026)
- 3.4 Temperature Profiling Recorder Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Temperature Profiling Recorder Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Temperature Profiling Recorder in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Temperature Profiling Recorder in 2025
- 3.6 Temperature Profiling Recorder Market: Overall Company Footprint Analysis
 - 3.6.1 Temperature Profiling Recorder Market: Region Footprint
 - 3.6.2 Temperature Profiling Recorder Market: Company Product Type Footprint
 - 3.6.3 Temperature Profiling Recorder Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Temperature Profiling Recorder Production Value Comparison
 - 4.1.1 United States VS China: Temperature Profiling Recorder Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Temperature Profiling Recorder Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Temperature Profiling Recorder Production Comparison
 - 4.2.1 United States VS China: Temperature Profiling Recorder Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Temperature Profiling Recorder Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Temperature Profiling Recorder Consumption Comparison
 - 4.3.1 United States VS China: Temperature Profiling Recorder Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Temperature Profiling Recorder Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Temperature Profiling Recorder Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Temperature Profiling Recorder Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Temperature Profiling Recorder Production Value (2021-2026)

4.4.3 United States Based Manufacturers Temperature Profiling Recorder Production (2021-2026)

4.5 China Based Temperature Profiling Recorder Manufacturers and Market Share

4.5.1 China Based Temperature Profiling Recorder Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Temperature Profiling Recorder Production Value (2021-2026)

4.5.3 China Based Manufacturers Temperature Profiling Recorder Production (2021-2026)

4.6 Rest of World Based Temperature Profiling Recorder Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Temperature Profiling Recorder Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Temperature Profiling Recorder Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Temperature Profiling Recorder Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Temperature Profiling Recorder Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Low-to-medium Temperature Systems below 300°C

5.2.2 Medium Temperature Systems 300–600°C

5.2.3 High Temperature Systems 600–1,100°C

5.3 Market Segment by Type

5.3.1 World Temperature Profiling Recorder Production by Type (2021-2032)

5.3.2 World Temperature Profiling Recorder Production Value by Type (2021-2032)

5.3.3 World Temperature Profiling Recorder Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY CHANNEL COUNT

6.1 World Temperature Profiling Recorder Market Size Overview by Channel Count: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Channel Count

6.2.1 1–3 Channel Recorders

6.2.2 4–6 Channel Recorders

6.2.3 7–12 Channel Recorders

6.2.4 13–20 Channel Recorders

6.2.5 Above 20 Channel Systems

6.3 Market Segment by Channel Count

6.3.1 World Temperature Profiling Recorder Production by Channel Count (2021-2032)

6.3.2 World Temperature Profiling Recorder Production Value by Channel Count (2021-2032)

6.3.3 World Temperature Profiling Recorder Average Price by Channel Count (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Temperature Profiling Recorder Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Electronics

7.2.2 Semiconductor

7.2.3 Others

7.3 Market Segment by Application

7.3.1 World Temperature Profiling Recorder Production by Application (2021-2032)

7.3.2 World Temperature Profiling Recorder Production Value by Application (2021-2032)

7.3.3 World Temperature Profiling Recorder Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Fluke Process Instruments

8.1.1 Fluke Process Instruments Details

8.1.2 Fluke Process Instruments Major Business

8.1.3 Fluke Process Instruments Temperature Profiling Recorder Product and Services

8.1.4 Fluke Process Instruments Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Fluke Process Instruments Recent Developments/Updates

- 8.1.6 Fluke Process Instruments Competitive Strengths & Weaknesses
- 8.2 KIC Thermal
 - 8.2.1 KIC Thermal Details
 - 8.2.2 KIC Thermal Major Business
 - 8.2.3 KIC Thermal Temperature Profiling Recorder Product and Services
 - 8.2.4 KIC Thermal Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.2.5 KIC Thermal Recent Developments/Updates
 - 8.2.6 KIC Thermal Competitive Strengths & Weaknesses
- 8.3 ECD
 - 8.3.1 ECD Details
 - 8.3.2 ECD Major Business
 - 8.3.3 ECD Temperature Profiling Recorder Product and Services
 - 8.3.4 ECD Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.3.5 ECD Recent Developments/Updates
 - 8.3.6 ECD Competitive Strengths & Weaknesses
- 8.4 PhoenixTM
 - 8.4.1 PhoenixTM Details
 - 8.4.2 PhoenixTM Major Business
 - 8.4.3 PhoenixTM Temperature Profiling Recorder Product and Services
 - 8.4.4 PhoenixTM Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.4.5 PhoenixTM Recent Developments/Updates
 - 8.4.6 PhoenixTM Competitive Strengths & Weaknesses
- 8.5 Solderstar Ltd
 - 8.5.1 Solderstar Ltd Details
 - 8.5.2 Solderstar Ltd Major Business
 - 8.5.3 Solderstar Ltd Temperature Profiling Recorder Product and Services
 - 8.5.4 Solderstar Ltd Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 Solderstar Ltd Recent Developments/Updates
 - 8.5.6 Solderstar Ltd Competitive Strengths & Weaknesses
- 8.6 Industrial Physics
 - 8.6.1 Industrial Physics Details
 - 8.6.2 Industrial Physics Major Business
 - 8.6.3 Industrial Physics Temperature Profiling Recorder Product and Services
 - 8.6.4 Industrial Physics Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 8.6.5 Industrial Physics Recent Developments/Updates
- 8.6.6 Industrial Physics Competitive Strengths & Weaknesses
- 8.7 Malcom Co., Ltd.
 - 8.7.1 Malcom Co., Ltd. Details
 - 8.7.2 Malcom Co., Ltd. Major Business
 - 8.7.3 Malcom Co., Ltd. Temperature Profiling Recorder Product and Services
 - 8.7.4 Malcom Co., Ltd. Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.7.5 Malcom Co., Ltd. Recent Developments/Updates
 - 8.7.6 Malcom Co., Ltd. Competitive Strengths & Weaknesses
- 8.8 TMI-Orion MMS
 - 8.8.1 TMI-Orion MMS Details
 - 8.8.2 TMI-Orion MMS Major Business
 - 8.8.3 TMI-Orion MMS Temperature Profiling Recorder Product and Services
 - 8.8.4 TMI-Orion MMS Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.8.5 TMI-Orion MMS Recent Developments/Updates
 - 8.8.6 TMI-Orion MMS Competitive Strengths & Weaknesses
- 8.9 Shenzhen Toprie Electronics
 - 8.9.1 Shenzhen Toprie Electronics Details
 - 8.9.2 Shenzhen Toprie Electronics Major Business
 - 8.9.3 Shenzhen Toprie Electronics Temperature Profiling Recorder Product and Services
 - 8.9.4 Shenzhen Toprie Electronics Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.9.5 Shenzhen Toprie Electronics Recent Developments/Updates
 - 8.9.6 Shenzhen Toprie Electronics Competitive Strengths & Weaknesses
- 8.10 Shenzhen Topcity Electronics
 - 8.10.1 Shenzhen Topcity Electronics Details
 - 8.10.2 Shenzhen Topcity Electronics Major Business
 - 8.10.3 Shenzhen Topcity Electronics Temperature Profiling Recorder Product and Services
 - 8.10.4 Shenzhen Topcity Electronics Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.10.5 Shenzhen Topcity Electronics Recent Developments/Updates
 - 8.10.6 Shenzhen Topcity Electronics Competitive Strengths & Weaknesses
- 8.11 Suzhou Temas Precision Instrument
 - 8.11.1 Suzhou Temas Precision Instrument Details
 - 8.11.2 Suzhou Temas Precision Instrument Major Business

8.11.3 Suzhou Temas Precision Instrument Temperature Profiling Recorder Product and Services

8.11.4 Suzhou Temas Precision Instrument Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.11.5 Suzhou Temas Precision Instrument Recent Developments/Updates

8.11.6 Suzhou Temas Precision Instrument Competitive Strengths & Weaknesses

8.12 Shenzhen Sunmenta Electronics

8.12.1 Shenzhen Sunmenta Electronics Details

8.12.2 Shenzhen Sunmenta Electronics Major Business

8.12.3 Shenzhen Sunmenta Electronics Temperature Profiling Recorder Product and Services

8.12.4 Shenzhen Sunmenta Electronics Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.12.5 Shenzhen Sunmenta Electronics Recent Developments/Updates

8.12.6 Shenzhen Sunmenta Electronics Competitive Strengths & Weaknesses

8.13 BESTEMP

8.13.1 BESTEMP Details

8.13.2 BESTEMP Major Business

8.13.3 BESTEMP Temperature Profiling Recorder Product and Services

8.13.4 BESTEMP Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.13.5 BESTEMP Recent Developments/Updates

8.13.6 BESTEMP Competitive Strengths & Weaknesses

8.14 Suzhou Ruisimi Electronic

8.14.1 Suzhou Ruisimi Electronic Details

8.14.2 Suzhou Ruisimi Electronic Major Business

8.14.3 Suzhou Ruisimi Electronic Temperature Profiling Recorder Product and Services

8.14.4 Suzhou Ruisimi Electronic Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.14.5 Suzhou Ruisimi Electronic Recent Developments/Updates

8.14.6 Suzhou Ruisimi Electronic Competitive Strengths & Weaknesses

8.15 Beijing Zhongyi Tianxin

8.15.1 Beijing Zhongyi Tianxin Details

8.15.2 Beijing Zhongyi Tianxin Major Business

8.15.3 Beijing Zhongyi Tianxin Temperature Profiling Recorder Product and Services

8.15.4 Beijing Zhongyi Tianxin Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.15.5 Beijing Zhongyi Tianxin Recent Developments/Updates

- 8.15.6 Beijing Zhongyi Tianxin Competitive Strengths & Weaknesses
- 8.16 Changzhou Jinko / JAI Lian
 - 8.16.1 Changzhou Jinko / JAI Lian Details
 - 8.16.2 Changzhou Jinko / JAI Lian Major Business
 - 8.16.3 Changzhou Jinko / JAI Lian Temperature Profiling Recorder Product and Services
 - 8.16.4 Changzhou Jinko / JAI Lian Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.16.5 Changzhou Jinko / JAI Lian Recent Developments/Updates
 - 8.16.6 Changzhou Jinko / JAI Lian Competitive Strengths & Weaknesses
- 8.17 Suzhou Zhongtian Keyi
 - 8.17.1 Suzhou Zhongtian Keyi Details
 - 8.17.2 Suzhou Zhongtian Keyi Major Business
 - 8.17.3 Suzhou Zhongtian Keyi Temperature Profiling Recorder Product and Services
 - 8.17.4 Suzhou Zhongtian Keyi Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.17.5 Suzhou Zhongtian Keyi Recent Developments/Updates
 - 8.17.6 Suzhou Zhongtian Keyi Competitive Strengths & Weaknesses
- 8.18 Suzhou Leien Testing Instrument
 - 8.18.1 Suzhou Leien Testing Instrument Details
 - 8.18.2 Suzhou Leien Testing Instrument Major Business
 - 8.18.3 Suzhou Leien Testing Instrument Temperature Profiling Recorder Product and Services
 - 8.18.4 Suzhou Leien Testing Instrument Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.18.5 Suzhou Leien Testing Instrument Recent Developments/Updates
 - 8.18.6 Suzhou Leien Testing Instrument Competitive Strengths & Weaknesses
- 8.19 Mesa Labs / DataTrace
 - 8.19.1 Mesa Labs / DataTrace Details
 - 8.19.2 Mesa Labs / DataTrace Major Business
 - 8.19.3 Mesa Labs / DataTrace Temperature Profiling Recorder Product and Services
 - 8.19.4 Mesa Labs / DataTrace Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.19.5 Mesa Labs / DataTrace Recent Developments/Updates
 - 8.19.6 Mesa Labs / DataTrace Competitive Strengths & Weaknesses
- 8.20 Ellab A/S
 - 8.20.1 Ellab A/S Details
 - 8.20.2 Ellab A/S Major Business
 - 8.20.3 Ellab A/S Temperature Profiling Recorder Product and Services

8.20.4 Ellab A/S Temperature Profiling Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.20.5 Ellab A/S Recent Developments/Updates

8.20.6 Ellab A/S Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Temperature Profiling Recorder Industry Chain

9.2 Temperature Profiling Recorder Upstream Analysis

9.2.1 Temperature Profiling Recorder Core Raw Materials

9.2.2 Main Manufacturers of Temperature Profiling Recorder Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Temperature Profiling Recorder Production Mode

9.6 Temperature Profiling Recorder Procurement Model

9.7 Temperature Profiling Recorder Industry Sales Model and Sales Channels

9.7.1 Temperature Profiling Recorder Sales Model

9.7.2 Temperature Profiling Recorder Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Temperature Profiling Recorder Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Temperature Profiling Recorder Production Value by Region (2021-2026) & (USD Million)

Table 3. World Temperature Profiling Recorder Production Value by Region (2027-2032) & (USD Million)

Table 4. World Temperature Profiling Recorder Production Value Market Share by Region (2021-2026)

Table 5. World Temperature Profiling Recorder Production Value Market Share by Region (2027-2032)

Table 6. World Temperature Profiling Recorder Production by Region (2021-2026) & (Units)

Table 7. World Temperature Profiling Recorder Production by Region (2027-2032) & (Units)

Table 8. World Temperature Profiling Recorder Production Market Share by Region (2021-2026)

Table 9. World Temperature Profiling Recorder Production Market Share by Region (2027-2032)

Table 10. World Temperature Profiling Recorder Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Temperature Profiling Recorder Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Temperature Profiling Recorder Major Market Trends

Table 13. World Temperature Profiling Recorder Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Temperature Profiling Recorder Consumption by Region (2021-2026) & (Units)

Table 15. World Temperature Profiling Recorder Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Temperature Profiling Recorder Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Temperature Profiling Recorder Producers in 2025

Table 18. World Temperature Profiling Recorder Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Temperature Profiling Recorder Producers in 2025

Table 20. World Temperature Profiling Recorder Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Temperature Profiling Recorder Company Evaluation Quadrant

Table 22. World Temperature Profiling Recorder Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Temperature Profiling Recorder Production Site of Key Manufacturer

Table 24. Temperature Profiling Recorder Market: Company Product Type Footprint

Table 25. Temperature Profiling Recorder Market: Company Product Application Footprint

Table 26. Temperature Profiling Recorder Competitive Factors

Table 27. Temperature Profiling Recorder New Entrant and Capacity Expansion Plans

Table 28. Temperature Profiling Recorder Mergers & Acquisitions Activity

Table 29. United States VS China Temperature Profiling Recorder Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Temperature Profiling Recorder Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Temperature Profiling Recorder Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Temperature Profiling Recorder Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Temperature Profiling Recorder Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Temperature Profiling Recorder Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Temperature Profiling Recorder Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Temperature Profiling Recorder Production Market Share (2021-2026)

Table 37. China Based Temperature Profiling Recorder Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Temperature Profiling Recorder Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Temperature Profiling Recorder Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Temperature Profiling Recorder Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Temperature Profiling Recorder Production Market Share (2021-2026)

Table 42. Rest of World Based Temperature Profiling Recorder Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Temperature Profiling Recorder Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Temperature Profiling Recorder Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Temperature Profiling Recorder Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Temperature Profiling Recorder Production Market Share (2021-2026)

Table 47. World Temperature Profiling Recorder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Temperature Profiling Recorder Production by Type (2021-2026) & (Units)

Table 49. World Temperature Profiling Recorder Production by Type (2027-2032) & (Units)

Table 50. World Temperature Profiling Recorder Production Value by Type (2021-2026) & (USD Million)

Table 51. World Temperature Profiling Recorder Production Value by Type (2027-2032) & (USD Million)

Table 52. World Temperature Profiling Recorder Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Temperature Profiling Recorder Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Temperature Profiling Recorder Production Value by Channel Count, (USD Million), 2021 & 2025 & 2032

Table 55. World Temperature Profiling Recorder Production by Channel Count (2021-2026) & (Units)

Table 56. World Temperature Profiling Recorder Production by Channel Count (2027-2032) & (Units)

Table 57. World Temperature Profiling Recorder Production Value by Channel Count (2021-2026) & (USD Million)

Table 58. World Temperature Profiling Recorder Production Value by Channel Count (2027-2032) & (USD Million)

Table 59. World Temperature Profiling Recorder Average Price by Channel Count (2021-2026) & (US\$/Unit)

Table 60. World Temperature Profiling Recorder Average Price by Channel Count

(2027-2032) & (US\$/Unit)

Table 61. World Temperature Profiling Recorder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Temperature Profiling Recorder Production by Application (2021-2026) & (Units)

Table 63. World Temperature Profiling Recorder Production by Application (2027-2032) & (Units)

Table 64. World Temperature Profiling Recorder Production Value by Application (2021-2026) & (USD Million)

Table 65. World Temperature Profiling Recorder Production Value by Application (2027-2032) & (USD Million)

Table 66. World Temperature Profiling Recorder Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Temperature Profiling Recorder Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Fluke Process Instruments Basic Information, Manufacturing Base and Competitors

Table 69. Fluke Process Instruments Major Business

Table 70. Fluke Process Instruments Temperature Profiling Recorder Product and Services

Table 71. Fluke Process Instruments Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Fluke Process Instruments Recent Developments/Updates

Table 73. Fluke Process Instruments Competitive Strengths & Weaknesses

Table 74. KIC Thermal Basic Information, Manufacturing Base and Competitors

Table 75. KIC Thermal Major Business

Table 76. KIC Thermal Temperature Profiling Recorder Product and Services

Table 77. KIC Thermal Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. KIC Thermal Recent Developments/Updates

Table 79. KIC Thermal Competitive Strengths & Weaknesses

Table 80. ECD Basic Information, Manufacturing Base and Competitors

Table 81. ECD Major Business

Table 82. ECD Temperature Profiling Recorder Product and Services

Table 83. ECD Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. ECD Recent Developments/Updates

- Table 85. ECD Competitive Strengths & Weaknesses
- Table 86. Phoenix™ Basic Information, Manufacturing Base and Competitors
- Table 87. Phoenix™ Major Business
- Table 88. Phoenix™ Temperature Profiling Recorder Product and Services
- Table 89. Phoenix™ Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 90. Phoenix™ Recent Developments/Updates
- Table 91. Phoenix™ Competitive Strengths & Weaknesses
- Table 92. Solderstar Ltd Basic Information, Manufacturing Base and Competitors
- Table 93. Solderstar Ltd Major Business
- Table 94. Solderstar Ltd Temperature Profiling Recorder Product and Services
- Table 95. Solderstar Ltd Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 96. Solderstar Ltd Recent Developments/Updates
- Table 97. Solderstar Ltd Competitive Strengths & Weaknesses
- Table 98. Industrial Physics Basic Information, Manufacturing Base and Competitors
- Table 99. Industrial Physics Major Business
- Table 100. Industrial Physics Temperature Profiling Recorder Product and Services
- Table 101. Industrial Physics Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. Industrial Physics Recent Developments/Updates
- Table 103. Industrial Physics Competitive Strengths & Weaknesses
- Table 104. Malcom Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 105. Malcom Co., Ltd. Major Business
- Table 106. Malcom Co., Ltd. Temperature Profiling Recorder Product and Services
- Table 107. Malcom Co., Ltd. Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. Malcom Co., Ltd. Recent Developments/Updates
- Table 109. Malcom Co., Ltd. Competitive Strengths & Weaknesses
- Table 110. TMI-Orion MMS Basic Information, Manufacturing Base and Competitors
- Table 111. TMI-Orion MMS Major Business
- Table 112. TMI-Orion MMS Temperature Profiling Recorder Product and Services
- Table 113. TMI-Orion MMS Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. TMI-Orion MMS Recent Developments/Updates

Table 115. TMI-Orion MMS Competitive Strengths & Weaknesses

Table 116. Shenzhen Toprie Electronics Basic Information, Manufacturing Base and Competitors

Table 117. Shenzhen Toprie Electronics Major Business

Table 118. Shenzhen Toprie Electronics Temperature Profiling Recorder Product and Services

Table 119. Shenzhen Toprie Electronics Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Shenzhen Toprie Electronics Recent Developments/Updates

Table 121. Shenzhen Toprie Electronics Competitive Strengths & Weaknesses

Table 122. Shenzhen Topcity Electronics Basic Information, Manufacturing Base and Competitors

Table 123. Shenzhen Topcity Electronics Major Business

Table 124. Shenzhen Topcity Electronics Temperature Profiling Recorder Product and Services

Table 125. Shenzhen Topcity Electronics Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Shenzhen Topcity Electronics Recent Developments/Updates

Table 127. Shenzhen Topcity Electronics Competitive Strengths & Weaknesses

Table 128. Suzhou Temas Precision Instrument Basic Information, Manufacturing Base and Competitors

Table 129. Suzhou Temas Precision Instrument Major Business

Table 130. Suzhou Temas Precision Instrument Temperature Profiling Recorder Product and Services

Table 131. Suzhou Temas Precision Instrument Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Suzhou Temas Precision Instrument Recent Developments/Updates

Table 133. Suzhou Temas Precision Instrument Competitive Strengths & Weaknesses

Table 134. Shenzhen Sunmenta Electronics Basic Information, Manufacturing Base and Competitors

Table 135. Shenzhen Sunmenta Electronics Major Business

Table 136. Shenzhen Sunmenta Electronics Temperature Profiling Recorder Product and Services

Table 137. Shenzhen Sunmenta Electronics Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 138. Shenzhen Sunmenta Electronics Recent Developments/Updates

Table 139. Shenzhen Sunmenta Electronics Competitive Strengths & Weaknesses

Table 140. BESTEMP Basic Information, Manufacturing Base and Competitors

Table 141. BESTEMP Major Business

Table 142. BESTEMP Temperature Profiling Recorder Product and Services

Table 143. BESTEMP Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. BESTEMP Recent Developments/Updates

Table 145. BESTEMP Competitive Strengths & Weaknesses

Table 146. Suzhou Ruisimi Electronic Basic Information, Manufacturing Base and Competitors

Table 147. Suzhou Ruisimi Electronic Major Business

Table 148. Suzhou Ruisimi Electronic Temperature Profiling Recorder Product and Services

Table 149. Suzhou Ruisimi Electronic Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. Suzhou Ruisimi Electronic Recent Developments/Updates

Table 151. Suzhou Ruisimi Electronic Competitive Strengths & Weaknesses

Table 152. Beijing Zhongyi Tianxin Basic Information, Manufacturing Base and Competitors

Table 153. Beijing Zhongyi Tianxin Major Business

Table 154. Beijing Zhongyi Tianxin Temperature Profiling Recorder Product and Services

Table 155. Beijing Zhongyi Tianxin Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. Beijing Zhongyi Tianxin Recent Developments/Updates

Table 157. Beijing Zhongyi Tianxin Competitive Strengths & Weaknesses

Table 158. Changzhou Jinko / JAI Lian Basic Information, Manufacturing Base and Competitors

Table 159. Changzhou Jinko / JAI Lian Major Business

Table 160. Changzhou Jinko / JAI Lian Temperature Profiling Recorder Product and Services

Table 161. Changzhou Jinko / JAI Lian Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 162. Changzhou Jinko / JAI Lian Recent Developments/Updates
- Table 163. Changzhou Jinko / JAI Lian Competitive Strengths & Weaknesses
- Table 164. Suzhou Zhongtian Keyi Basic Information, Manufacturing Base and Competitors
- Table 165. Suzhou Zhongtian Keyi Major Business
- Table 166. Suzhou Zhongtian Keyi Temperature Profiling Recorder Product and Services
- Table 167. Suzhou Zhongtian Keyi Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 168. Suzhou Zhongtian Keyi Recent Developments/Updates
- Table 169. Suzhou Zhongtian Keyi Competitive Strengths & Weaknesses
- Table 170. Suzhou Leien Testing Instrument Basic Information, Manufacturing Base and Competitors
- Table 171. Suzhou Leien Testing Instrument Major Business
- Table 172. Suzhou Leien Testing Instrument Temperature Profiling Recorder Product and Services
- Table 173. Suzhou Leien Testing Instrument Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 174. Suzhou Leien Testing Instrument Recent Developments/Updates
- Table 175. Suzhou Leien Testing Instrument Competitive Strengths & Weaknesses
- Table 176. Mesa Labs / DataTrace Basic Information, Manufacturing Base and Competitors
- Table 177. Mesa Labs / DataTrace Major Business
- Table 178. Mesa Labs / DataTrace Temperature Profiling Recorder Product and Services
- Table 179. Mesa Labs / DataTrace Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 180. Mesa Labs / DataTrace Recent Developments/Updates
- Table 181. Mesa Labs / DataTrace Competitive Strengths & Weaknesses
- Table 182. Ellab A/S Basic Information, Manufacturing Base and Competitors
- Table 183. Ellab A/S Major Business
- Table 184. Ellab A/S Temperature Profiling Recorder Product and Services
- Table 185. Ellab A/S Temperature Profiling Recorder Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 186. Ellab A/S Recent Developments/Updates

Table 187. Ellab A/S Competitive Strengths & Weaknesses

Table 188. Global Key Players of Temperature Profiling Recorder Upstream (Raw Materials)

Table 189. Global Temperature Profiling Recorder Typical Customers

Table 190. Temperature Profiling Recorder Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Temperature Profiling Recorder Picture

Figure 2. World Temperature Profiling Recorder Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Temperature Profiling Recorder Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Temperature Profiling Recorder Production (2021-2032) & (Units)

Figure 5. World Temperature Profiling Recorder Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Temperature Profiling Recorder Production Value Market Share by Region (2021-2032)

Figure 7. World Temperature Profiling Recorder Production Market Share by Region (2021-2032)

Figure 8. North America Temperature Profiling Recorder Production (2021-2032) & (Units)

Figure 9. Europe Temperature Profiling Recorder Production (2021-2032) & (Units)

Figure 10. China Temperature Profiling Recorder Production (2021-2032) & (Units)

Figure 11. Japan Temperature Profiling Recorder Production (2021-2032) & (Units)

Figure 12. Temperature Profiling Recorder Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Temperature Profiling Recorder Consumption (2021-2032) & (Units)

Figure 15. World Temperature Profiling Recorder Consumption Market Share by Region (2021-2032)

Figure 16. United States Temperature Profiling Recorder Consumption (2021-2032) & (Units)

Figure 17. China Temperature Profiling Recorder Consumption (2021-2032) & (Units)

Figure 18. Europe Temperature Profiling Recorder Consumption (2021-2032) & (Units)

Figure 19. Japan Temperature Profiling Recorder Consumption (2021-2032) & (Units)

Figure 20. South Korea Temperature Profiling Recorder Consumption (2021-2032) & (Units)

Figure 21. ASEAN Temperature Profiling Recorder Consumption (2021-2032) & (Units)

Figure 22. India Temperature Profiling Recorder Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Temperature Profiling Recorder by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Temperature Profiling Recorder Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Temperature Profiling Recorder Markets in 2025

Figure 26. United States VS China: Temperature Profiling Recorder Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Temperature Profiling Recorder Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Temperature Profiling Recorder Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Temperature Profiling Recorder Production Market Share 2025

Figure 30. China Based Manufacturers Temperature Profiling Recorder Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Temperature Profiling Recorder Production Market Share 2025

Figure 32. World Temperature Profiling Recorder Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Temperature Profiling Recorder Production Value Market Share by Type in 2025

Figure 34. Low-to-medium Temperature Systems below 300°C

Figure 35. Medium Temperature Systems 300–600°C

Figure 36. High Temperature Systems 600–1,100°C

Figure 37. World Temperature Profiling Recorder Production Market Share by Type (2021-2032)

Figure 38. World Temperature Profiling Recorder Production Value Market Share by Type (2021-2032)

Figure 39. World Temperature Profiling Recorder Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Temperature Profiling Recorder Production Value by Channel Count, (USD Million), 2021 & 2025 & 2032

Figure 41. World Temperature Profiling Recorder Production Value Market Share by Channel Count in 2025

Figure 42. 1–3 Channel Recorders

Figure 43. 4–6 Channel Recorders

Figure 44. 7–12 Channel Recorders

Figure 45. 13–20 Channel Recorders

Figure 46. Above 20 Channel Systems

Figure 47. World Temperature Profiling Recorder Production Market Share by Channel Count (2021-2032)

Figure 48. World Temperature Profiling Recorder Production Value Market Share by

Channel Count (2021-2032)

Figure 49. World Temperature Profiling Recorder Average Price by Channel Count (2021-2032) & (US\$/Unit)

Figure 50. World Temperature Profiling Recorder Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 51. World Temperature Profiling Recorder Production Value Market Share by Application in 2025

Figure 52. Electronics

Figure 53. Semiconductor

Figure 54. Others

Figure 55. World Temperature Profiling Recorder Production Market Share by Application (2021-2032)

Figure 56. World Temperature Profiling Recorder Production Value Market Share by Application (2021-2032)

Figure 57. World Temperature Profiling Recorder Average Price by Application (2021-2032) & (US\$/Unit)

Figure 58. Temperature Profiling Recorder Industry Chain

Figure 59. Temperature Profiling Recorder Procurement Model

Figure 60. Temperature Profiling Recorder Sales Model

Figure 61. Temperature Profiling Recorder Sales Channels, Direct Sales, and Distribution

Figure 62. Methodology

Figure 63. Research Process and Data Source

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