

Global Heat Flow Loggers Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GE5E3480C836EN.html>

Date: July 2026

Pages: 127

Price: US\$ 4,480.00 (Single User License)

ID: GE5E3480C836EN

Abstracts

The global Heat Flow Loggers market size is expected to reach \$ 67.52 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

In 2025, global Heat Flow Loggers production reached approximately 6,400 Units. The average price is approximately \$7,000. Heat Flow Loggers are specialized instruments used to acquire, record, display and analyze time-series heat flow or heat flux signals.

Based on our research, Heat Flow Loggers represent a narrow but technically specialized instrumentation market rather than a broad category of general-purpose data loggers. The defining feature of the market is not the wording "heat flow meter" alone, but whether the instrument can acquire, record and analyze time-series heat flux signals from heat flux sensors or heat flow plates. The core use cases are in-situ building U-value and R-value measurement, industrial oven or process heat flux profiling, soil heat flux and environmental energy balance monitoring, and R&D thermal management for materials, electronics and batteries. This boundary is important because laboratory heat flow meter apparatus used for thermal conductivity testing, infrared thermal imagers and generic temperature loggers follow different purchasing logic and should not be mixed into the narrow revenue model.

From the supply side, the industry is fragmented and application-specific. Hukseflux, HIOKI, greenTEG, DwyerOmega, FluxTeq, Ahlborn, Build Test Solutions, Reading Thermal, ICT International, Thistle Thermal Profiling and Beijing Shiji Jiantong form the most relevant core supplier pool under the narrow scope. A second layer consists of heat flux sensor specialists and general-purpose data logger vendors that can support heat flux applications but do not necessarily offer a dedicated heat flux logger as a standalone product. Europe has a strong position in heat flux

sensors, building physics and U-value systems; Japan is strong in reliable data logging instruments; North America has a broad base across DAQ modules, aerospace heat flux sensors and industrial thermal profiling; China is still at an early stage in dedicated heat flow logger OEM supply.

From the demand side, building energy efficiency and field verification of envelope performance are the most durable growth drivers. The requirement to record heat flow and temperature data in field measurement methods provides a technical basis for recurring demand in building diagnostics, retrofit validation and materials assessment. Industrial process control, especially baking, drying, curing and heat treatment, adds a higher-ASP niche where heat flux profiling can improve product consistency and energy efficiency. R&D demand from batteries, electronics cooling, thermal insulation materials and aerospace thermal protection remains smaller in volume but supports premium sensors, low-noise acquisition electronics and customized systems.

From a technology perspective, the market is moving from engineering-style combinations of sensors and generic loggers toward application-ready measurement kits. The product roadmap is shifting toward wireless systems, embedded software, automated U/R-value calculation, longer battery life, better low-voltage resolution, cloud data transfer and easier installation. Substitution risk exists from infrared thermography, simulation and embedded temperature networks, but these tools generally do not replace contact heat flux measurements where quantitative heat flow, standards alignment and long-duration monitoring are required. As a result, the market is expected to remain small but resilient, with moderate growth and a persistent role for specialized suppliers.

This report studies the global Heat Flow Loggers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Heat Flow Loggers 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 Heat Flow Loggers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Heat Flow Loggers total production and demand, 2021-2032, (K Units)

Global Heat Flow Loggers total production value, 2021-2032, (USD Million)

Global Heat Flow Loggers production by region & country, production, value, CAGR,

2021-2032, (USD Million) & (K Units), (based on production site)

Global Heat Flow Loggers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Heat Flow Loggers domestic production, consumption, key domestic manufacturers and share

Global Heat Flow Loggers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Heat Flow Loggers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Heat Flow Loggers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Heat Flow Loggers 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 Hukseflux Thermal Sensors B.V., HIOKI E.E. Corporation, greenTEG AG, Reading Thermal, DwyerOmega, FluxTeq LLC, Ahlborn Mess- und Regelungstechnik GmbH, Build Test Solutions Ltd, ICT International Pty Ltd, Thistle Thermal Profiling Ltd, 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 Heat Flow Loggers 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 Heat Flow Loggers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Heat Flow Loggers Market, Segmentation by Type:

Thermopile-Type Heat Flux Recorder

Guarded Heat Flux Recorder

Thin-Film Heat Flux Recorder

Thermal Resistance-Type Heat Flux Recorder

Global Heat Flow Loggers Market, Segmentation by Device Form Factor:

Portable Handheld Heat Flux Data Logger

Benchtop Laboratory Heat Flux Data Logger

Global Heat Flow Loggers Market, Segmentation by Heat Flow Range:

Low-Range Model: Heat Flux Measurement Range 0?200 W/M?

Medium-Range Model: Heat Flux Measurement Range 200?2000 W/M?

High-Range Model: Heat Flux Measurement Range Above 2000 W/M?

Global Heat Flow Loggers Market, Segmentation by Application:

Construction and Building Materials Industry

Automotive and Transportation Industry

Aerospace and Defense Industry

Others

Companies Profiled:

Hukseflux Thermal Sensors B.V.

HIOKI E.E. Corporation

greenTEG AG

Reading Thermal

DwyerOmega

FluxTeq LLC

Ahlborn Mess- und Regelungstechnik GmbH

Build Test Solutions Ltd

ICT International Pty Ltd

Thistle Thermal Profiling Ltd

Beijing Shiji Jiantong Technology Co., Ltd.

Campbell Scientific Inc.

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Heat Flow Loggers Production Value by Manufacturer (2021-2026)

- 3.2 World Heat Flow Loggers Production by Manufacturer (2021-2026)
- 3.3 World Heat Flow Loggers Average Price by Manufacturer (2021-2026)
- 3.4 Heat Flow Loggers Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Heat Flow Loggers Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Heat Flow Loggers in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Heat Flow Loggers in 2025
- 3.6 Heat Flow Loggers Market: Overall Company Footprint Analysis
 - 3.6.1 Heat Flow Loggers Market: Region Footprint
 - 3.6.2 Heat Flow Loggers Market: Company Product Type Footprint
 - 3.6.3 Heat Flow Loggers 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: Heat Flow Loggers Production Value Comparison
 - 4.1.1 United States VS China: Heat Flow Loggers Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Heat Flow Loggers Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Heat Flow Loggers Production Comparison
 - 4.2.1 United States VS China: Heat Flow Loggers Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Heat Flow Loggers Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Heat Flow Loggers Consumption Comparison
 - 4.3.1 United States VS China: Heat Flow Loggers Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Heat Flow Loggers Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Heat Flow Loggers Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Heat Flow Loggers Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Heat Flow Loggers Production Value (2021-2026)

4.4.3 United States Based Manufacturers Heat Flow Loggers Production (2021-2026)

4.5 China Based Heat Flow Loggers Manufacturers and Market Share

4.5.1 China Based Heat Flow Loggers Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Heat Flow Loggers Production Value (2021-2026)

4.5.3 China Based Manufacturers Heat Flow Loggers Production (2021-2026)

4.6 Rest of World Based Heat Flow Loggers Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Heat Flow Loggers Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Heat Flow Loggers Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Heat Flow Loggers Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Heat Flow Loggers Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Thermopile-Type Heat Flux Recorder

5.2.2 Guarded Heat Flux Recorder

5.2.3 Thin-Film Heat Flux Recorder

5.2.4 Thermal Resistance-Type Heat Flux Recorder

5.3 Market Segment by Type

5.3.1 World Heat Flow Loggers Production by Type (2021-2032)

5.3.2 World Heat Flow Loggers Production Value by Type (2021-2032)

5.3.3 World Heat Flow Loggers Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DEVICE FORM FACTOR

6.1 World Heat Flow Loggers Market Size Overview by Device Form Factor: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Device Form Factor

6.2.1 Portable Handheld Heat Flux Data Logger

6.2.2 Benchtop Laboratory Heat Flux Data Logger

6.3 Market Segment by Device Form Factor

6.3.1 World Heat Flow Loggers Production by Device Form Factor (2021-2032)

6.3.2 World Heat Flow Loggers Production Value by Device Form Factor (2021-2032)

6.3.3 World Heat Flow Loggers Average Price by Device Form Factor (2021-2032)

7 MARKET ANALYSIS BY HEAT FLOW RANGE

7.1 World Heat Flow Loggers Market Size Overview by Heat Flow Range: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Heat Flow Range

7.2.1 Low-Range Model: Heat Flux Measurement Range 0?200 W/M?

7.2.2 Medium-Range Model: Heat Flux Measurement Range 200?2000 W/M?

7.2.3 High-Range Model: Heat Flux Measurement Range Above 2000 W/M?

7.3 Market Segment by Heat Flow Range

7.3.1 World Heat Flow Loggers Production by Heat Flow Range (2021-2032)

7.3.2 World Heat Flow Loggers Production Value by Heat Flow Range (2021-2032)

7.3.3 World Heat Flow Loggers Average Price by Heat Flow Range (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Heat Flow Loggers Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Construction and Building Materials Industry

8.2.2 Automotive and Transportation Industry

8.2.3 Aerospace and Defense Industry

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Heat Flow Loggers Production by Application (2021-2032)

8.3.2 World Heat Flow Loggers Production Value by Application (2021-2032)

8.3.3 World Heat Flow Loggers Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Hukseflux Thermal Sensors B.V.

9.1.1 Hukseflux Thermal Sensors B.V. Details

9.1.2 Hukseflux Thermal Sensors B.V. Major Business

9.1.3 Hukseflux Thermal Sensors B.V. Heat Flow Loggers Product and Services

9.1.4 Hukseflux Thermal Sensors B.V. Heat Flow Loggers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Hukseflux Thermal Sensors B.V. Recent Developments/Updates

9.1.6 Hukseflux Thermal Sensors B.V. Competitive Strengths & Weaknesses

9.2 HIOKI E.E. Corporation

9.2.1 HIOKI E.E. Corporation Details

9.2.2 HIOKI E.E. Corporation Major Business

9.2.3 HIOKI E.E. Corporation Heat Flow Loggers Product and Services

9.2.4 HIOKI E.E. Corporation Heat Flow Loggers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 HIOKI E.E. Corporation Recent Developments/Updates

9.2.6 HIOKI E.E. Corporation Competitive Strengths & Weaknesses

9.3 greenTEG AG

9.3.1 greenTEG AG Details

9.3.2 greenTEG AG Major Business

9.3.3 greenTEG AG Heat Flow Loggers Product and Services

9.3.4 greenTEG AG Heat Flow Loggers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 greenTEG AG Recent Developments/Updates

9.3.6 greenTEG AG Competitive Strengths & Weaknesses

9.4 Reading Thermal

9.4.1 Reading Thermal Details

9.4.2 Reading Thermal Major Business

9.4.3 Reading Thermal Heat Flow Loggers Product and Services

9.4.4 Reading Thermal Heat Flow Loggers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Reading Thermal Recent Developments/Updates

9.4.6 Reading Thermal Competitive Strengths & Weaknesses

9.5 DwyerOmega

9.5.1 DwyerOmega Details

9.5.2 DwyerOmega Major Business

9.5.3 DwyerOmega Heat Flow Loggers Product and Services

9.5.4 DwyerOmega Heat Flow Loggers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 DwyerOmega Recent Developments/Updates

9.5.6 DwyerOmega Competitive Strengths & Weaknesses

9.6 FluxTeq LLC

9.6.1 FluxTeq LLC Details

9.6.2 FluxTeq LLC Major Business

9.6.3 FluxTeq LLC Heat Flow Loggers Product and Services

9.6.4 FluxTeq LLC Heat Flow Loggers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 FluxTeq LLC Recent Developments/Updates

- 9.6.6 FluxTeq LLC Competitive Strengths & Weaknesses
- 9.7 Ahlborn Mess- und Regelungstechnik GmbH
 - 9.7.1 Ahlborn Mess- und Regelungstechnik GmbH Details
 - 9.7.2 Ahlborn Mess- und Regelungstechnik GmbH Major Business
 - 9.7.3 Ahlborn Mess- und Regelungstechnik GmbH Heat Flow Loggers Product and Services
 - 9.7.4 Ahlborn Mess- und Regelungstechnik GmbH Heat Flow Loggers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Ahlborn Mess- und Regelungstechnik GmbH Recent Developments/Updates
 - 9.7.6 Ahlborn Mess- und Regelungstechnik GmbH Competitive Strengths & Weaknesses
- 9.8 Build Test Solutions Ltd
 - 9.8.1 Build Test Solutions Ltd Details
 - 9.8.2 Build Test Solutions Ltd Major Business
 - 9.8.3 Build Test Solutions Ltd Heat Flow Loggers Product and Services
 - 9.8.4 Build Test Solutions Ltd Heat Flow Loggers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Build Test Solutions Ltd Recent Developments/Updates
 - 9.8.6 Build Test Solutions Ltd Competitive Strengths & Weaknesses
- 9.9 ICT International Pty Ltd
 - 9.9.1 ICT International Pty Ltd Details
 - 9.9.2 ICT International Pty Ltd Major Business
 - 9.9.3 ICT International Pty Ltd Heat Flow Loggers Product and Services
 - 9.9.4 ICT International Pty Ltd Heat Flow Loggers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 ICT International Pty Ltd Recent Developments/Updates
 - 9.9.6 ICT International Pty Ltd Competitive Strengths & Weaknesses
- 9.10 Thistle Thermal Profiling Ltd
 - 9.10.1 Thistle Thermal Profiling Ltd Details
 - 9.10.2 Thistle Thermal Profiling Ltd Major Business
 - 9.10.3 Thistle Thermal Profiling Ltd Heat Flow Loggers Product and Services
 - 9.10.4 Thistle Thermal Profiling Ltd Heat Flow Loggers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Thistle Thermal Profiling Ltd Recent Developments/Updates
 - 9.10.6 Thistle Thermal Profiling Ltd Competitive Strengths & Weaknesses
- 9.11 Beijing Shiji Jiantong Technology Co., Ltd.
 - 9.11.1 Beijing Shiji Jiantong Technology Co., Ltd. Details
 - 9.11.2 Beijing Shiji Jiantong Technology Co., Ltd. Major Business
 - 9.11.3 Beijing Shiji Jiantong Technology Co., Ltd. Heat Flow Loggers Product and

Services

9.11.4 Beijing Shiji Jiantong Technology Co., Ltd. Heat Flow Loggers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Beijing Shiji Jiantong Technology Co., Ltd. Recent Developments/Updates

9.11.6 Beijing Shiji Jiantong Technology Co., Ltd. Competitive Strengths & Weaknesses

9.12 Campbell Scientific Inc.

9.12.1 Campbell Scientific Inc. Details

9.12.2 Campbell Scientific Inc. Major Business

9.12.3 Campbell Scientific Inc. Heat Flow Loggers Product and Services

9.12.4 Campbell Scientific Inc. Heat Flow Loggers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Campbell Scientific Inc. Recent Developments/Updates

9.12.6 Campbell Scientific Inc. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Heat Flow Loggers Industry Chain

10.2 Heat Flow Loggers Upstream Analysis

10.2.1 Heat Flow Loggers Core Raw Materials

10.2.2 Main Manufacturers of Heat Flow Loggers Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Heat Flow Loggers Production Mode

10.6 Heat Flow Loggers Procurement Model

10.7 Heat Flow Loggers Industry Sales Model and Sales Channels

10.7.1 Heat Flow Loggers Sales Model

10.7.2 Heat Flow Loggers Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Heat Flow Loggers Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Heat Flow Loggers Production Value by Region (2021-2026) & (USD Million)

Table 3. World Heat Flow Loggers Production Value by Region (2027-2032) & (USD Million)

Table 4. World Heat Flow Loggers Production Value Market Share by Region (2021-2026)

Table 5. World Heat Flow Loggers Production Value Market Share by Region (2027-2032)

Table 6. World Heat Flow Loggers Production by Region (2021-2026) & (K Units)

Table 7. World Heat Flow Loggers Production by Region (2027-2032) & (K Units)

Table 8. World Heat Flow Loggers Production Market Share by Region (2021-2026)

Table 9. World Heat Flow Loggers Production Market Share by Region (2027-2032)

Table 10. World Heat Flow Loggers Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Heat Flow Loggers Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Heat Flow Loggers Major Market Trends

Table 13. World Heat Flow Loggers Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Heat Flow Loggers Consumption by Region (2021-2026) & (K Units)

Table 15. World Heat Flow Loggers Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Heat Flow Loggers Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Heat Flow Loggers Producers in 2025

Table 18. World Heat Flow Loggers Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Heat Flow Loggers Producers in 2025

Table 20. World Heat Flow Loggers Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Heat Flow Loggers Company Evaluation Quadrant

Table 22. World Heat Flow Loggers Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Heat Flow Loggers Production Site of Key Manufacturer

Table 24. Heat Flow Loggers Market: Company Product Type Footprint

Table 25. Heat Flow Loggers Market: Company Product Application Footprint
Table 26. Heat Flow Loggers Competitive Factors
Table 27. Heat Flow Loggers New Entrant and Capacity Expansion Plans
Table 28. Heat Flow Loggers Mergers & Acquisitions Activity
Table 29. United States VS China Heat Flow Loggers Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Heat Flow Loggers Production Comparison, (2021 & 2025 & 2032) & (K Units)
Table 31. United States VS China Heat Flow Loggers Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
Table 32. United States Based Heat Flow Loggers Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Heat Flow Loggers Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Heat Flow Loggers Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Heat Flow Loggers Production (2021-2026) & (K Units)
Table 36. United States Based Manufacturers Heat Flow Loggers Production Market Share (2021-2026)
Table 37. China Based Heat Flow Loggers Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Heat Flow Loggers Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Heat Flow Loggers Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Heat Flow Loggers Production, (2021-2026) & (K Units)
Table 41. China Based Manufacturers Heat Flow Loggers Production Market Share (2021-2026)
Table 42. Rest of World Based Heat Flow Loggers Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Heat Flow Loggers Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Heat Flow Loggers Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Heat Flow Loggers Production, (2021-2026) & (K Units)
Table 46. Rest of World Based Manufacturers Heat Flow Loggers Production Market

Share (2021-2026)

Table 47. World Heat Flow Loggers Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Heat Flow Loggers Production by Type (2021-2026) & (K Units)

Table 49. World Heat Flow Loggers Production by Type (2027-2032) & (K Units)

Table 50. World Heat Flow Loggers Production Value by Type (2021-2026) & (USD Million)

Table 51. World Heat Flow Loggers Production Value by Type (2027-2032) & (USD Million)

Table 52. World Heat Flow Loggers Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Heat Flow Loggers Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Heat Flow Loggers Production Value by Device Form Factor, (USD Million), 2021 & 2025 & 2032

Table 55. World Heat Flow Loggers Production by Device Form Factor (2021-2026) & (K Units)

Table 56. World Heat Flow Loggers Production by Device Form Factor (2027-2032) & (K Units)

Table 57. World Heat Flow Loggers Production Value by Device Form Factor (2021-2026) & (USD Million)

Table 58. World Heat Flow Loggers Production Value by Device Form Factor (2027-2032) & (USD Million)

Table 59. World Heat Flow Loggers Average Price by Device Form Factor (2021-2026) & (US\$/Unit)

Table 60. World Heat Flow Loggers Average Price by Device Form Factor (2027-2032) & (US\$/Unit)

Table 61. World Heat Flow Loggers Production Value by Heat Flow Range, (USD Million), 2021 & 2025 & 2032

Table 62. World Heat Flow Loggers Production by Heat Flow Range (2021-2026) & (K Units)

Table 63. World Heat Flow Loggers Production by Heat Flow Range (2027-2032) & (K Units)

Table 64. World Heat Flow Loggers Production Value by Heat Flow Range (2021-2026) & (USD Million)

Table 65. World Heat Flow Loggers Production Value by Heat Flow Range (2027-2032) & (USD Million)

Table 66. World Heat Flow Loggers Average Price by Heat Flow Range (2021-2026) & (US\$/Unit)

Table 67. World Heat Flow Loggers Average Price by Heat Flow Range (2027-2032) & (US\$/Unit)

Table 68. World Heat Flow Loggers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Heat Flow Loggers Production by Application (2021-2026) & (K Units)

Table 70. World Heat Flow Loggers Production by Application (2027-2032) & (K Units)

Table 71. World Heat Flow Loggers Production Value by Application (2021-2026) & (USD Million)

Table 72. World Heat Flow Loggers Production Value by Application (2027-2032) & (USD Million)

Table 73. World Heat Flow Loggers Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Heat Flow Loggers Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Hukseflux Thermal Sensors B.V. Basic Information, Manufacturing Base and Competitors

Table 76. Hukseflux Thermal Sensors B.V. Major Business

Table 77. Hukseflux Thermal Sensors B.V. Heat Flow Loggers Product and Services

Table 78. Hukseflux Thermal Sensors B.V. Heat Flow Loggers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Hukseflux Thermal Sensors B.V. Recent Developments/Updates

Table 80. Hukseflux Thermal Sensors B.V. Competitive Strengths & Weaknesses

Table 81. HIOKI E.E. Corporation Basic Information, Manufacturing Base and Competitors

Table 82. HIOKI E.E. Corporation Major Business

Table 83. HIOKI E.E. Corporation Heat Flow Loggers Product and Services

Table 84. HIOKI E.E. Corporation Heat Flow Loggers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. HIOKI E.E. Corporation Recent Developments/Updates

Table 86. HIOKI E.E. Corporation Competitive Strengths & Weaknesses

Table 87. greenTEG AG Basic Information, Manufacturing Base and Competitors

Table 88. greenTEG AG Major Business

Table 89. greenTEG AG Heat Flow Loggers Product and Services

Table 90. greenTEG AG Heat Flow Loggers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. greenTEG AG Recent Developments/Updates

Table 92. greenTEG AG Competitive Strengths & Weaknesses

Table 93. Reading Thermal Basic Information, Manufacturing Base and Competitors

Table 94. Reading Thermal Major Business

Table 95. Reading Thermal Heat Flow Loggers Product and Services
Table 96. Reading Thermal Heat Flow Loggers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Reading Thermal Recent Developments/Updates
Table 98. Reading Thermal Competitive Strengths & Weaknesses
Table 99. DwyerOmega Basic Information, Manufacturing Base and Competitors
Table 100. DwyerOmega Major Business
Table 101. DwyerOmega Heat Flow Loggers Product and Services
Table 102. DwyerOmega Heat Flow Loggers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. DwyerOmega Recent Developments/Updates
Table 104. DwyerOmega Competitive Strengths & Weaknesses
Table 105. FluxTeq LLC Basic Information, Manufacturing Base and Competitors
Table 106. FluxTeq LLC Major Business
Table 107. FluxTeq LLC Heat Flow Loggers Product and Services
Table 108. FluxTeq LLC Heat Flow Loggers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. FluxTeq LLC Recent Developments/Updates
Table 110. FluxTeq LLC Competitive Strengths & Weaknesses
Table 111. Ahlborn Mess- und Regelungstechnik GmbH Basic Information, Manufacturing Base and Competitors
Table 112. Ahlborn Mess- und Regelungstechnik GmbH Major Business
Table 113. Ahlborn Mess- und Regelungstechnik GmbH Heat Flow Loggers Product and Services
Table 114. Ahlborn Mess- und Regelungstechnik GmbH Heat Flow Loggers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Ahlborn Mess- und Regelungstechnik GmbH Recent Developments/Updates
Table 116. Ahlborn Mess- und Regelungstechnik GmbH Competitive Strengths & Weaknesses
Table 117. Build Test Solutions Ltd Basic Information, Manufacturing Base and Competitors
Table 118. Build Test Solutions Ltd Major Business
Table 119. Build Test Solutions Ltd Heat Flow Loggers Product and Services
Table 120. Build Test Solutions Ltd Heat Flow Loggers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Build Test Solutions Ltd Recent Developments/Updates
Table 122. Build Test Solutions Ltd Competitive Strengths & Weaknesses

Table 123. ICT International Pty Ltd Basic Information, Manufacturing Base and Competitors

Table 124. ICT International Pty Ltd Major Business

Table 125. ICT International Pty Ltd Heat Flow Loggers Product and Services

Table 126. ICT International Pty Ltd Heat Flow Loggers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. ICT International Pty Ltd Recent Developments/Updates

Table 128. ICT International Pty Ltd Competitive Strengths & Weaknesses

Table 129. Thistle Thermal Profiling Ltd Basic Information, Manufacturing Base and Competitors

Table 130. Thistle Thermal Profiling Ltd Major Business

Table 131. Thistle Thermal Profiling Ltd Heat Flow Loggers Product and Services

Table 132. Thistle Thermal Profiling Ltd Heat Flow Loggers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Thistle Thermal Profiling Ltd Recent Developments/Updates

Table 134. Thistle Thermal Profiling Ltd Competitive Strengths & Weaknesses

Table 135. Beijing Shiji Jiantong Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 136. Beijing Shiji Jiantong Technology Co., Ltd. Major Business

Table 137. Beijing Shiji Jiantong Technology Co., Ltd. Heat Flow Loggers Product and Services

Table 138. Beijing Shiji Jiantong Technology Co., Ltd. Heat Flow Loggers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Beijing Shiji Jiantong Technology Co., Ltd. Recent Developments/Updates

Table 140. Beijing Shiji Jiantong Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 141. Campbell Scientific Inc. Basic Information, Manufacturing Base and Competitors

Table 142. Campbell Scientific Inc. Major Business

Table 143. Campbell Scientific Inc. Heat Flow Loggers Product and Services

Table 144. Campbell Scientific Inc. Heat Flow Loggers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Campbell Scientific Inc. Recent Developments/Updates

Table 146. Campbell Scientific Inc. Competitive Strengths & Weaknesses

Table 147. Global Key Players of Heat Flow Loggers Upstream (Raw Materials)

Table 148. Global Heat Flow Loggers Typical Customers

Table 149. Heat Flow Loggers Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Heat Flow Loggers Picture

Figure 2. World Heat Flow Loggers Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Heat Flow Loggers Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Heat Flow Loggers Production (2021-2032) & (K Units)

Figure 5. World Heat Flow Loggers Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Heat Flow Loggers Production Value Market Share by Region (2021-2032)

Figure 7. World Heat Flow Loggers Production Market Share by Region (2021-2032)

Figure 8. North America Heat Flow Loggers Production (2021-2032) & (K Units)

Figure 9. Europe Heat Flow Loggers Production (2021-2032) & (K Units)

Figure 10. China Heat Flow Loggers Production (2021-2032) & (K Units)

Figure 11. Japan Heat Flow Loggers Production (2021-2032) & (K Units)

Figure 12. Heat Flow Loggers Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Heat Flow Loggers Consumption (2021-2032) & (K Units)

Figure 15. World Heat Flow Loggers Consumption Market Share by Region (2021-2032)

Figure 16. United States Heat Flow Loggers Consumption (2021-2032) & (K Units)

Figure 17. China Heat Flow Loggers Consumption (2021-2032) & (K Units)

Figure 18. Europe Heat Flow Loggers Consumption (2021-2032) & (K Units)

Figure 19. Japan Heat Flow Loggers Consumption (2021-2032) & (K Units)

Figure 20. South Korea Heat Flow Loggers Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Heat Flow Loggers Consumption (2021-2032) & (K Units)

Figure 22. India Heat Flow Loggers Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Heat Flow Loggers by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Heat Flow Loggers Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Heat Flow Loggers Markets in 2025

Figure 26. United States VS China: Heat Flow Loggers Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Heat Flow Loggers Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Heat Flow Loggers Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Heat Flow Loggers Production Market Share 2025

Figure 30. China Based Manufacturers Heat Flow Loggers Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Heat Flow Loggers Production Market Share 2025

Figure 32. World Heat Flow Loggers Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Heat Flow Loggers Production Value Market Share by Type in 2025

Figure 34. Thermopile-Type Heat Flux Recorder

Figure 35. Guarded Heat Flux Recorder

Figure 36. Thin-Film Heat Flux Recorder

Figure 37. Thermal Resistance-Type Heat Flux Recorder

Figure 38. World Heat Flow Loggers Production Market Share by Type (2021-2032)

Figure 39. World Heat Flow Loggers Production Value Market Share by Type (2021-2032)

Figure 40. World Heat Flow Loggers Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Heat Flow Loggers Production Value by Device Form Factor, (USD Million), 2021 & 2025 & 2032

Figure 42. World Heat Flow Loggers Production Value Market Share by Device Form Factor in 2025

Figure 43. Portable Handheld Heat Flux Data Logger

Figure 44. Benchtop Laboratory Heat Flux Data Logger

Figure 45. World Heat Flow Loggers Production Market Share by Device Form Factor (2021-2032)

Figure 46. World Heat Flow Loggers Production Value Market Share by Device Form Factor (2021-2032)

Figure 47. World Heat Flow Loggers Average Price by Device Form Factor (2021-2032) & (US\$/Unit)

Figure 48. World Heat Flow Loggers Production Value by Heat Flow Range, (USD Million), 2021 & 2025 & 2032

Figure 49. World Heat Flow Loggers Production Value Market Share by Heat Flow Range in 2025

Figure 50. Low-Range Model: Heat Flux Measurement Range 0?200 W/M?

Figure 51. Medium-Range Model: Heat Flux Measurement Range 200?2000 W/M?

Figure 52. High-Range Model: Heat Flux Measurement Range Above 2000 W/M?

Figure 53. World Heat Flow Loggers Production Market Share by Heat Flow Range (2021-2032)

Figure 54. World Heat Flow Loggers Production Value Market Share by Heat Flow Range (2021-2032)

Figure 55. World Heat Flow Loggers Average Price by Heat Flow Range (2021-2032) & (US\$/Unit)

Figure 56. World Heat Flow Loggers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Heat Flow Loggers Production Value Market Share by Application in 2025

Figure 58. Construction and Building Materials Industry

Figure 59. Automotive and Transportation Industry

Figure 60. Aerospace and Defense Industry

Figure 61. Others

Figure 62. World Heat Flow Loggers Production Market Share by Application (2021-2032)

Figure 63. World Heat Flow Loggers Production Value Market Share by Application (2021-2032)

Figure 64. World Heat Flow Loggers Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Heat Flow Loggers Industry Chain

Figure 66. Heat Flow Loggers Procurement Model

Figure 67. Heat Flow Loggers Sales Model

Figure 68. Heat Flow Loggers Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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