

Global Acoustic Temperature Measurement Equipment Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Acoustic Temperature Measurement Equipment market size was valued at US\$ 26.75 million in 2025 and is forecast to a readjusted size of US\$ 41.86 million by 2032 with a CAGR of 6.4% during review period.

Acoustic temperature measurement equipment is a category of industrial process monitoring equipment that determines gas temperature by using the established relationship between acoustic wave propagation velocity, travel time, and the thermodynamic temperature of the gas medium. It is primarily installed in boilers, furnaces, flue gas ducts, waste incinerators, blast furnaces, recovery boilers, and other large high temperature industrial spaces where continuous and representative gas temperature information is required. A typical system consists of acoustic transmitters, acoustic receivers, high temperature acoustic ports, purge and protection assemblies, signal acquisition units, timing control modules, industrial computers, and temperature calculation software. The equipment transmits acoustic signals across a defined measurement path, records the time required for the sound wave to travel between the transmitter and receiver, and calculates the path averaged gas temperature after correcting for path length, gas composition, pressure, and operating conditions.

The main product forms include single path acoustic pyrometers, multi path acoustic temperature measurement systems, two dimensional acoustic temperature field imaging systems, and customized systems designed for large boilers and industrial furnaces. Multi path configurations arrange acoustic transceivers around the measurement section and combine travel time data from several intersecting paths. Acoustic tomography algorithms are then used to reconstruct a two dimensional temperature field

or, in selected applications, a localized three dimensional temperature distribution. The principal technical processes include high power acoustic source design, weak signal detection, background noise suppression, precise time of flight identification, high temperature interface fabrication, continuous purge protection, path calibration, temperature field reconstruction, and data integration with distributed control systems.

Key specifications generally include measurement range, temperature accuracy, number of acoustic paths, response time, measurement section dimensions, environmental temperature resistance, spatial resolution, system availability, and communication protocol. The equipment provides continuous non contact measurement of average gas temperature and temperature distribution under operating conditions in which conventional contact sensors may suffer from radiation errors, thermal inertia, corrosion, slag deposition, or limited spatial representativeness. Its major functions include combustion balance monitoring, burner air distribution adjustment, slagging risk identification, heating surface protection, selective non catalytic reduction temperature window control, thermal efficiency optimization, and emissions management. Major applications include coal fired and gas fired power boilers, waste to energy plants, biomass boilers, pulp recovery boilers, iron and steel furnaces, petrochemical process heaters, glass melting furnaces, and other large industrial kilns. In 2025, the industry average gross margin was approximately 45% to 55%.

The upstream value chain of acoustic temperature measurement equipment includes high temperature acoustic components, industrial sound sources, microphones and sensing elements, signal acquisition modules, industrial computers, control cabinets, purge assemblies, heat resistant alloy structures, and software development tools. Midstream activities cover acoustic source engineering, receiver manufacturing, measurement path design, hardware integration, time of flight identification, temperature field reconstruction, control interface development, site calibration, and commissioning. Most of the industry value is concentrated in reliable signal recognition under severe background noise, long term operation in high temperature environments, accurate reconstruction of nonuniform temperature fields, and accumulated project engineering experience. Downstream demand comes from power generation, waste incineration, iron and steel, petrochemicals, pulp and paper, glass, and other high temperature process industries. Procurement is mainly project based because system configuration depends on furnace geometry, fuel characteristics, measurement section size, acoustic path quantity, and the operating objectives of each plant.

The global supply structure is characterized by a small number of established

technology platforms and a broader network of regional engineering and service companies. European and North American suppliers have accumulated long operating records in acoustic pyrometry, gas temperature measurement, and acoustic tomography for utility boilers and industrial furnaces. Mature products typically combine acoustic hardware, temperature calculation software, control system communication, installation engineering, and lifecycle support. China is gradually shifting from imported systems toward locally developed equipment, supported by power plant digitalization, intelligent combustion projects, and the modernization of existing generating units. However, the number of companies capable of supplying complete acoustic transmitters, receivers, algorithms, software platforms, and long term operating support remains limited. Industry consolidation has also reshaped the competitive landscape, as specialized acoustic pyrometer technologies have been acquired and incorporated into larger industrial automation portfolios.

Demand remains anchored in utility boilers and large industrial combustion systems, while waste to energy plants, biomass boilers, blast furnaces, and petrochemical process heaters provide important incremental opportunities. Slower construction of new coal fired capacity does not eliminate the market because existing power units increasingly require flexible operation, deep load cycling, low emission combustion, heating surface protection, and more accurate control of reagent injection temperature windows. Waste and biomass fuels generate highly variable combustion conditions, making continuous temperature distribution monitoring more valuable than isolated point measurements. Applications in steel, refining, glass, and specialty furnaces are more customized and involve fewer projects, but they generally require more complex configurations and higher engineering content. The application mix is therefore expected to become more diversified, with growth supported by both power plant modernization and broader adoption across high temperature process industries.

Energy efficiency policies, industrial digitalization programs, emissions regulations, waste incineration operating standards, and power plant safety requirements are creating steady demand for greater visibility into furnace conditions. Product development is moving toward higher acoustic path density, improved spatial resolution, intelligent noise filtering, automatic calibration, edge computing, remote diagnostics, and direct integration with combustion control platforms. New systems are increasingly designed not only to measure temperature but also to support air distribution adjustment, slagging prevention, thermal efficiency optimization, and emissions control. Competitive pressure from infrared imaging, thermocouples, suction pyrometers, optical instruments, and model based estimation will continue to limit the addressable market. Nevertheless, acoustic temperature measurement retains strong technical relevance in

large and complex furnace spaces where representative non contact temperature distribution data is difficult to obtain through conventional methods, supporting stable long term growth and sustained technical barriers.

Report Scope

This report is a detailed and comprehensive analysis for global Acoustic Temperature Measurement Equipment market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Measurement Architecture and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Acoustic Temperature Measurement Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Acoustic Temperature Measurement Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Acoustic Temperature Measurement Equipment market size and forecasts, by Measurement Architecture and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Acoustic Temperature Measurement Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Acoustic Temperature Measurement Equipment

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Acoustic Temperature Measurement Equipment market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bonnenberg & Drescher GmbH, Valmet Oyj, Scientific Environmental Instruments, Inc., Beijing Allinby Technology Co., Ltd., etc.

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

Market Segmentation

Acoustic Temperature Measurement Equipment market is split by Measurement Architecture and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Measurement Architecture, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Measurement Architecture

Single Path Acoustic Measurement

Multi Path Acoustic Measurement

Market segment by Technology Route

Sound-Velocity Pyrometry

Acoustic Resonance Thermometry

Others

Market segment by Key Component Technology

Pneumatic Acoustic Source

Spark Discharge Acoustic Source

PiezoelectricSource

High-Temperature Microphone

Others

Market segment by Application

Power Generation

Waste to Energy and Environmental Services

Iron and Steel

Refining and Petrochemicals

Pulp and Paper

Building Materials

Others

Major players covered

Bonnenberg & Drescher GmbH

Valmet Oyj

Scientific Environmental Instruments, Inc.

Beijing Allinby Technology Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Acoustic Temperature Measurement Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Acoustic Temperature Measurement Equipment, with price, sales quantity, revenue, and global market share of Acoustic Temperature Measurement Equipment from 2021 to 2026.

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

Chapter 4, the Acoustic Temperature Measurement Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Measurement Architecture and by Application, with sales market share and growth rate by Measurement Architecture, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

to 2026.and Acoustic Temperature Measurement Equipment market forecast, by regions, by Measurement Architecture, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Acoustic Temperature Measurement Equipment.

Chapter 14 and 15, to describe Acoustic Temperature Measurement Equipment sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Measurement Architecture

1.3.1 Overview: Global Acoustic Temperature Measurement Equipment Consumption Value by Measurement Architecture: 2021 Versus 2025 Versus 2032

1.3.2 Single Path Acoustic Measurement

1.3.3 Multi Path Acoustic Measurement

1.4 Market Analysis by Technology Route

1.4.1 Overview: Global Acoustic Temperature Measurement Equipment Consumption Value by Technology Route: 2021 Versus 2025 Versus 2032

1.4.2 Sound-Velocity Pyrometry

1.4.3 Acoustic Resonance Thermometry

1.4.4 Others

1.5 Market Analysis by Key Component Technology

1.5.1 Overview: Global Acoustic Temperature Measurement Equipment Consumption Value by Key Component Technology: 2021 Versus 2025 Versus 2032

1.5.2 Pneumatic Acoustic Source

1.5.3 Spark Discharge Acoustic Source

1.5.4 PiezoelectricSource

1.5.5 High-Temperature Microphone

1.5.6 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Acoustic Temperature Measurement Equipment Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Power Generation

1.6.3 Waste to Energy and Environmental Services

1.6.4 Iron and Steel

1.6.5 Refining and Petrochemicals

1.6.6 Pulp and Paper

1.6.7 Building Materials

1.6.8 Others

1.7 Global Acoustic Temperature Measurement Equipment Market Size & Forecast

1.7.1 Global Acoustic Temperature Measurement Equipment Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Acoustic Temperature Measurement Equipment Sales Quantity

(2021-2032)

1.7.3 Global Acoustic Temperature Measurement Equipment Average Price

(2021-2032)

2 MANUFACTURERS PROFILES

2.1 Bonnenberg & Drescher GmbH

2.1.1 Bonnenberg & Drescher GmbH Details

2.1.2 Bonnenberg & Drescher GmbH Major Business

2.1.3 Bonnenberg & Drescher GmbH Acoustic Temperature Measurement Equipment Product and Services

2.1.4 Bonnenberg & Drescher GmbH Acoustic Temperature Measurement Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Bonnenberg & Drescher GmbH Recent Developments/Updates

2.2 Valmet Oyj

2.2.1 Valmet Oyj Details

2.2.2 Valmet Oyj Major Business

2.2.3 Valmet Oyj Acoustic Temperature Measurement Equipment Product and Services

2.2.4 Valmet Oyj Acoustic Temperature Measurement Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Valmet Oyj Recent Developments/Updates

2.3 Scientific Environmental Instruments, Inc.

2.3.1 Scientific Environmental Instruments, Inc. Details

2.3.2 Scientific Environmental Instruments, Inc. Major Business

2.3.3 Scientific Environmental Instruments, Inc. Acoustic Temperature Measurement Equipment Product and Services

2.3.4 Scientific Environmental Instruments, Inc. Acoustic Temperature Measurement Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Scientific Environmental Instruments, Inc. Recent Developments/Updates

2.4 Beijing Allinby Technology Co., Ltd.

2.4.1 Beijing Allinby Technology Co., Ltd. Details

2.4.2 Beijing Allinby Technology Co., Ltd. Major Business

2.4.3 Beijing Allinby Technology Co., Ltd. Acoustic Temperature Measurement Equipment Product and Services

2.4.4 Beijing Allinby Technology Co., Ltd. Acoustic Temperature Measurement Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Beijing Allinby Technology Co., Ltd. Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: ACOUSTIC TEMPERATURE MEASUREMENT EQUIPMENT BY MANUFACTURER

3.1 Global Acoustic Temperature Measurement Equipment Sales Quantity by Manufacturer (2021-2026)

3.2 Global Acoustic Temperature Measurement Equipment Revenue by Manufacturer (2021-2026)

3.3 Global Acoustic Temperature Measurement Equipment Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Acoustic Temperature Measurement Equipment by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Acoustic Temperature Measurement Equipment Manufacturer Market Share in 2025

3.4.3 Top 6 Acoustic Temperature Measurement Equipment Manufacturer Market Share in 2025

3.5 Acoustic Temperature Measurement Equipment Market: Overall Company Footprint Analysis

3.5.1 Acoustic Temperature Measurement Equipment Market: Region Footprint

3.5.2 Acoustic Temperature Measurement Equipment Market: Company Product Type Footprint

3.5.3 Acoustic Temperature Measurement Equipment Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Acoustic Temperature Measurement Equipment Market Size by Region

4.1.1 Global Acoustic Temperature Measurement Equipment Sales Quantity by Region (2021-2032)

4.1.2 Global Acoustic Temperature Measurement Equipment Consumption Value by Region (2021-2032)

4.1.3 Global Acoustic Temperature Measurement Equipment Average Price by Region (2021-2032)

4.2 North America Acoustic Temperature Measurement Equipment Consumption Value (2021-2032)

4.3 Europe Acoustic Temperature Measurement Equipment Consumption Value (2021-2032)

4.4 Asia-Pacific Acoustic Temperature Measurement Equipment Consumption Value (2021-2032)

4.5 South America Acoustic Temperature Measurement Equipment Consumption Value (2021-2032)

4.6 Middle East & Africa Acoustic Temperature Measurement Equipment Consumption Value (2021-2032)

5 MARKET SEGMENT BY MEASUREMENT ARCHITECTURE

5.1 Global Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2021-2032)

5.2 Global Acoustic Temperature Measurement Equipment Consumption Value by Measurement Architecture (2021-2032)

5.3 Global Acoustic Temperature Measurement Equipment Average Price by Measurement Architecture (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Acoustic Temperature Measurement Equipment Sales Quantity by Application (2021-2032)

6.2 Global Acoustic Temperature Measurement Equipment Consumption Value by Application (2021-2032)

6.3 Global Acoustic Temperature Measurement Equipment Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2021-2032)

7.2 North America Acoustic Temperature Measurement Equipment Sales Quantity by Application (2021-2032)

7.3 North America Acoustic Temperature Measurement Equipment Market Size by Country

7.3.1 North America Acoustic Temperature Measurement Equipment Sales Quantity by Country (2021-2032)

7.3.2 North America Acoustic Temperature Measurement Equipment Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2021-2032)

8.2 Europe Acoustic Temperature Measurement Equipment Sales Quantity by Application (2021-2032)

8.3 Europe Acoustic Temperature Measurement Equipment Market Size by Country

8.3.1 Europe Acoustic Temperature Measurement Equipment Sales Quantity by Country (2021-2032)

8.3.2 Europe Acoustic Temperature Measurement Equipment Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2021-2032)

9.2 Asia-Pacific Acoustic Temperature Measurement Equipment Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Acoustic Temperature Measurement Equipment Market Size by Region

9.3.1 Asia-Pacific Acoustic Temperature Measurement Equipment Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Acoustic Temperature Measurement Equipment Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2021-2032)

10.2 South America Acoustic Temperature Measurement Equipment Sales Quantity by Application (2021-2032)

10.3 South America Acoustic Temperature Measurement Equipment Market Size by Country

10.3.1 South America Acoustic Temperature Measurement Equipment Sales Quantity by Country (2021-2032)

10.3.2 South America Acoustic Temperature Measurement Equipment Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2021-2032)

11.2 Middle East & Africa Acoustic Temperature Measurement Equipment Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Acoustic Temperature Measurement Equipment Market Size by Country

11.3.1 Middle East & Africa Acoustic Temperature Measurement Equipment Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Acoustic Temperature Measurement Equipment Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Acoustic Temperature Measurement Equipment Market Drivers

12.2 Acoustic Temperature Measurement Equipment Market Restraints

12.3 Acoustic Temperature Measurement Equipment Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Acoustic Temperature Measurement Equipment and Key Manufacturers

13.2 Manufacturing Costs Percentage of Acoustic Temperature Measurement Equipment

13.3 Acoustic Temperature Measurement Equipment Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Acoustic Temperature Measurement Equipment Typical Distributors

14.3 Acoustic Temperature Measurement Equipment Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Acoustic Temperature Measurement Equipment Consumption Value by Measurement Architecture, (USD Million), 2021 & 2025 & 2032

Table 2. Global Acoustic Temperature Measurement Equipment Consumption Value by Technology Route, (USD Million), 2021 & 2025 & 2032

Table 3. Global Acoustic Temperature Measurement Equipment Consumption Value by Key Component Technology, (USD Million), 2021 & 2025 & 2032

Table 4. Global Acoustic Temperature Measurement Equipment Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Bonnenberg & Drescher GmbH Basic Information, Manufacturing Base and Competitors

Table 6. Bonnenberg & Drescher GmbH Major Business

Table 7. Bonnenberg & Drescher GmbH Acoustic Temperature Measurement Equipment Product and Services

Table 8. Bonnenberg & Drescher GmbH Acoustic Temperature Measurement Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Bonnenberg & Drescher GmbH Recent Developments/Updates

Table 10. Valmet Oyj Basic Information, Manufacturing Base and Competitors

Table 11. Valmet Oyj Major Business

Table 12. Valmet Oyj Acoustic Temperature Measurement Equipment Product and Services

Table 13. Valmet Oyj Acoustic Temperature Measurement Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Valmet Oyj Recent Developments/Updates

Table 15. Scientific Environmental Instruments, Inc. Basic Information, Manufacturing Base and Competitors

Table 16. Scientific Environmental Instruments, Inc. Major Business

Table 17. Scientific Environmental Instruments, Inc. Acoustic Temperature Measurement Equipment Product and Services

Table 18. Scientific Environmental Instruments, Inc. Acoustic Temperature Measurement Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Scientific Environmental Instruments, Inc. Recent Developments/Updates

Table 20. Beijing Allinby Technology Co., Ltd. Basic Information, Manufacturing Base

and Competitors

Table 21. Beijing Allinby Technology Co., Ltd. Major Business

Table 22. Beijing Allinby Technology Co., Ltd. Acoustic Temperature Measurement Equipment Product and Services

Table 23. Beijing Allinby Technology Co., Ltd. Acoustic Temperature Measurement Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Beijing Allinby Technology Co., Ltd. Recent Developments/Updates

Table 25. Global Acoustic Temperature Measurement Equipment Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 26. Global Acoustic Temperature Measurement Equipment Revenue by Manufacturer (2021-2026) & (USD Million)

Table 27. Global Acoustic Temperature Measurement Equipment Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 28. Market Position of Manufacturers in Acoustic Temperature Measurement Equipment, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 29. Head Office and Acoustic Temperature Measurement Equipment Production Site of Key Manufacturer

Table 30. Acoustic Temperature Measurement Equipment Market: Company Product Type Footprint

Table 31. Acoustic Temperature Measurement Equipment Market: Company Product Application Footprint

Table 32. Acoustic Temperature Measurement Equipment New Market Entrants and Barriers to Market Entry

Table 33. Acoustic Temperature Measurement Equipment Mergers, Acquisition, Agreements, and Collaborations

Table 34. Global Acoustic Temperature Measurement Equipment Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 35. Global Acoustic Temperature Measurement Equipment Sales Quantity by Region (2021-2026) & (Units)

Table 36. Global Acoustic Temperature Measurement Equipment Sales Quantity by Region (2027-2032) & (Units)

Table 37. Global Acoustic Temperature Measurement Equipment Consumption Value by Region (2021-2026) & (USD Million)

Table 38. Global Acoustic Temperature Measurement Equipment Consumption Value by Region (2027-2032) & (USD Million)

Table 39. Global Acoustic Temperature Measurement Equipment Average Price by Region (2021-2026) & (K US\$/Unit)

Table 40. Global Acoustic Temperature Measurement Equipment Average Price by

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

Table 41. Global Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2021-2026) & (Units)

Table 42. Global Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2027-2032) & (Units)

Table 43. Global Acoustic Temperature Measurement Equipment Consumption Value by Measurement Architecture (2021-2026) & (USD Million)

Table 44. Global Acoustic Temperature Measurement Equipment Consumption Value by Measurement Architecture (2027-2032) & (USD Million)

Table 45. Global Acoustic Temperature Measurement Equipment Average Price by Measurement Architecture (2021-2026) & (K US\$/Unit)

Table 46. Global Acoustic Temperature Measurement Equipment Average Price by Measurement Architecture (2027-2032) & (K US\$/Unit)

Table 47. Global Acoustic Temperature Measurement Equipment Sales Quantity by Application (2021-2026) & (Units)

Table 48. Global Acoustic Temperature Measurement Equipment Sales Quantity by Application (2027-2032) & (Units)

Table 49. Global Acoustic Temperature Measurement Equipment Consumption Value by Application (2021-2026) & (USD Million)

Table 50. Global Acoustic Temperature Measurement Equipment Consumption Value by Application (2027-2032) & (USD Million)

Table 51. Global Acoustic Temperature Measurement Equipment Average Price by Application (2021-2026) & (K US\$/Unit)

Table 52. Global Acoustic Temperature Measurement Equipment Average Price by Application (2027-2032) & (K US\$/Unit)

Table 53. North America Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2021-2026) & (Units)

Table 54. North America Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2027-2032) & (Units)

Table 55. North America Acoustic Temperature Measurement Equipment Sales Quantity by Application (2021-2026) & (Units)

Table 56. North America Acoustic Temperature Measurement Equipment Sales Quantity by Application (2027-2032) & (Units)

Table 57. North America Acoustic Temperature Measurement Equipment Sales Quantity by Country (2021-2026) & (Units)

Table 58. North America Acoustic Temperature Measurement Equipment Sales Quantity by Country (2027-2032) & (Units)

Table 59. North America Acoustic Temperature Measurement Equipment Consumption Value by Country (2021-2026) & (USD Million)

Table 60. North America Acoustic Temperature Measurement Equipment Consumption Value by Country (2027-2032) & (USD Million)

Table 61. Europe Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2021-2026) & (Units)

Table 62. Europe Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2027-2032) & (Units)

Table 63. Europe Acoustic Temperature Measurement Equipment Sales Quantity by Application (2021-2026) & (Units)

Table 64. Europe Acoustic Temperature Measurement Equipment Sales Quantity by Application (2027-2032) & (Units)

Table 65. Europe Acoustic Temperature Measurement Equipment Sales Quantity by Country (2021-2026) & (Units)

Table 66. Europe Acoustic Temperature Measurement Equipment Sales Quantity by Country (2027-2032) & (Units)

Table 67. Europe Acoustic Temperature Measurement Equipment Consumption Value by Country (2021-2026) & (USD Million)

Table 68. Europe Acoustic Temperature Measurement Equipment Consumption Value by Country (2027-2032) & (USD Million)

Table 69. Asia-Pacific Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2021-2026) & (Units)

Table 70. Asia-Pacific Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2027-2032) & (Units)

Table 71. Asia-Pacific Acoustic Temperature Measurement Equipment Sales Quantity by Application (2021-2026) & (Units)

Table 72. Asia-Pacific Acoustic Temperature Measurement Equipment Sales Quantity by Application (2027-2032) & (Units)

Table 73. Asia-Pacific Acoustic Temperature Measurement Equipment Sales Quantity by Region (2021-2026) & (Units)

Table 74. Asia-Pacific Acoustic Temperature Measurement Equipment Sales Quantity by Region (2027-2032) & (Units)

Table 75. Asia-Pacific Acoustic Temperature Measurement Equipment Consumption Value by Region (2021-2026) & (USD Million)

Table 76. Asia-Pacific Acoustic Temperature Measurement Equipment Consumption Value by Region (2027-2032) & (USD Million)

Table 77. South America Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2021-2026) & (Units)

Table 78. South America Acoustic Temperature Measurement Equipment Sales Quantity by Measurement Architecture (2027-2032) & (Units)

Table 79. South America Acoustic Temperature Measurement Equipment Sales

Quantity by Application (2021-2026) & (Units)

Table 80. South America Acoustic Temperature Measurement Equipment Sales

Quantity by Application (2027-2032) & (Units)

Table 81. South America Acoustic Temperature Measurement Equipment Sales

Quantity by Country (2021-2026) & (Units)

Table 82. South America Acoustic Temperature Measurement Equipment Sales

Quantity by Country (2027-2032) & (Units)

Table 83. South America Acoustic Temperature Measurement Equipment Consumption

Value by Country (2021-2026) & (USD Million)

Table 84. South America Acoustic Temperature Measurement Equipment Consumption

Value by Country (2027-2032) & (USD Million)

Table 85. Middle East & Africa Acoustic Temperature Measurement Equipment Sales

Quantity by Measurement Architecture (2021-2026) & (Units)

Table 86. Middle East & Africa Acoustic Temperature Measurement Equipment Sales

Quantity by Measurement Architecture (2027-2032) & (Units)

Table 87. Middle East & Africa Acoustic Temperature Measurement Equipment Sales

Quantity by Application (2021-2026) & (Units)

Table 88. Middle East & Africa Acoustic Temperature Measurement Equipment Sales

Quantity by Application (2027-2032) & (Units)

Table 89. Middle East & Africa Acoustic Temperature Measurement Equipment Sales

Quantity by Country (2021-2026) & (Units)

Table 90. Middle East & Africa Acoustic Temperature Measurement Equipment Sales

Quantity by Country (2027-2032) & (Units)

Table 91. Middle East & Africa Acoustic Temperature Measurement Equipment

Consumption Value by Country (2021-2026) & (USD Million)

Table 92. Middle East & Africa Acoustic Temperature Measurement Equipment

Consumption Value by Country (2027-2032) & (USD Million)

Table 93. Acoustic Temperature Measurement Equipment Raw Material

Table 94. Key Manufacturers of Acoustic Temperature Measurement Equipment Raw Materials

Table 95. Acoustic Temperature Measurement Equipment Typical Distributors

Table 96. Acoustic Temperature Measurement Equipment Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Acoustic Temperature Measurement Equipment Picture
- Figure 2. Global Acoustic Temperature Measurement Equipment Revenue by Measurement Architecture, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Acoustic Temperature Measurement Equipment Revenue Market Share by Measurement Architecture in 2025
- Figure 4. Single Path Acoustic Measurement Examples
- Figure 5. Multi Path Acoustic Measurement Examples
- Figure 6. Global Acoustic Temperature Measurement Equipment Revenue by Technology Route, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Acoustic Temperature Measurement Equipment Revenue Market Share by Technology Route in 2025
- Figure 8. Sound-Velocity Pyrometry Examples
- Figure 9. Acoustic Resonance Thermometry Examples
- Figure 10. Others Examples
- Figure 11. Global Acoustic Temperature Measurement Equipment Revenue by Key Component Technology, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global Acoustic Temperature Measurement Equipment Revenue Market Share by Key Component Technology in 2025
- Figure 13. Pneumatic Acoustic Source Examples
- Figure 14. Spark Discharge Acoustic Source Examples
- Figure 15. PiezoelectricSource Examples
- Figure 16. High-Temperature Microphone Examples
- Figure 17. Others Examples
- Figure 18. Global Acoustic Temperature Measurement Equipment Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 19. Global Acoustic Temperature Measurement Equipment Revenue Market Share by Application in 2025
- Figure 20. Power Generation Examples
- Figure 21. Waste to Energy and Environmental Services Examples
- Figure 22. Iron and Steel Examples
- Figure 23. Refining and Petrochemicals Examples
- Figure 24. Pulp and Paper Examples
- Figure 25. Building Materials Examples
- Figure 26. Others Examples
- Figure 27. Global Acoustic Temperature Measurement Equipment Consumption Value,

(USD Million): 2021 & 2025 & 2032

Figure 28. Global Acoustic Temperature Measurement Equipment Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 29. Global Acoustic Temperature Measurement Equipment Sales Quantity (2021-2032) & (Units)

Figure 30. Global Acoustic Temperature Measurement Equipment Price (2021-2032) & (K US\$/Unit)

Figure 31. Global Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Manufacturer in 2025

Figure 32. Global Acoustic Temperature Measurement Equipment Revenue Market Share by Manufacturer in 2025

Figure 33. Producer Shipments of Acoustic Temperature Measurement Equipment by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 34. Top 3 Acoustic Temperature Measurement Equipment Manufacturer (Revenue) Market Share in 2025

Figure 35. Top 6 Acoustic Temperature Measurement Equipment Manufacturer (Revenue) Market Share in 2025

Figure 36. Global Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Region (2021-2032)

Figure 37. Global Acoustic Temperature Measurement Equipment Consumption Value Market Share by Region (2021-2032)

Figure 38. North America Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 39. Europe Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 40. Asia-Pacific Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 41. South America Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 42. Middle East & Africa Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 43. Global Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Measurement Architecture (2021-2032)

Figure 44. Global Acoustic Temperature Measurement Equipment Consumption Value Market Share by Measurement Architecture (2021-2032)

Figure 45. Global Acoustic Temperature Measurement Equipment Average Price by Measurement Architecture (2021-2032) & (K US\$/Unit)

Figure 46. Global Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Application (2021-2032)

Figure 47. Global Acoustic Temperature Measurement Equipment Revenue Market Share by Application (2021-2032)

Figure 48. Global Acoustic Temperature Measurement Equipment Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 49. North America Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Measurement Architecture (2021-2032)

Figure 50. North America Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Application (2021-2032)

Figure 51. North America Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Country (2021-2032)

Figure 52. North America Acoustic Temperature Measurement Equipment Consumption Value Market Share by Country (2021-2032)

Figure 53. United States Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 54. Canada Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 55. Mexico Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 56. Europe Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Measurement Architecture (2021-2032)

Figure 57. Europe Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Application (2021-2032)

Figure 58. Europe Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Country (2021-2032)

Figure 59. Europe Acoustic Temperature Measurement Equipment Consumption Value Market Share by Country (2021-2032)

Figure 60. Germany Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 61. France Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 62. United Kingdom Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 63. Russia Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 64. Italy Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 65. Asia-Pacific Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Measurement Architecture (2021-2032)

Figure 66. Asia-Pacific Acoustic Temperature Measurement Equipment Sales Quantity

Market Share by Application (2021-2032)

Figure 67. Asia-Pacific Acoustic Temperature Measurement Equipment Sales Quantity

Market Share by Region (2021-2032)

Figure 68. Asia-Pacific Acoustic Temperature Measurement Equipment Consumption

Value Market Share by Region (2021-2032)

Figure 69. China Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 70. Japan Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 71. South Korea Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 72. India Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 73. Southeast Asia Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 74. Australia Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 75. South America Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Measurement Architecture (2021-2032)

Figure 76. South America Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Application (2021-2032)

Figure 77. South America Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Country (2021-2032)

Figure 78. South America Acoustic Temperature Measurement Equipment Consumption Value Market Share by Country (2021-2032)

Figure 79. Brazil Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 80. Argentina Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 81. Middle East & Africa Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Measurement Architecture (2021-2032)

Figure 82. Middle East & Africa Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Application (2021-2032)

Figure 83. Middle East & Africa Acoustic Temperature Measurement Equipment Sales Quantity Market Share by Country (2021-2032)

Figure 84. Middle East & Africa Acoustic Temperature Measurement Equipment Consumption Value Market Share by Country (2021-2032)

Figure 85. Turkey Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 86. Egypt Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 87. Saudi Arabia Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 88. South Africa Acoustic Temperature Measurement Equipment Consumption Value (2021-2032) & (USD Million)

Figure 89. Acoustic Temperature Measurement Equipment Market Drivers

Figure 90. Acoustic Temperature Measurement Equipment Market Restraints

Figure 91. Acoustic Temperature Measurement Equipment Market Trends

Figure 92. Porters Five Forces Analysis

Figure 93. Manufacturing Cost Structure Analysis of Acoustic Temperature Measurement Equipment in 2025

Figure 94. Manufacturing Process Analysis of Acoustic Temperature Measurement Equipment

Figure 95. Acoustic Temperature Measurement Equipment Industrial Chain

Figure 96. Sales Channel: Direct to End-User vs Distributors

Figure 97. Direct Channel Pros & Cons

Figure 98. Indirect Channel Pros & Cons

Figure 99. Methodology

Figure 100. Research Process and Data Source

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