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Global Acoustic Temperature Measurement Equipment Market Growth 2026-2032

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Abstracts

The global Acoustic Temperature Measurement Equipment market size is predicted to grow from US$ 25.43 million in 2025 to US$ 40.71 million in 2032; it is expected to grow at a CAGR of 6.8% from 2026 to 2032.

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

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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

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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.

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Report Scope

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

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Acoustic Temperature Measurement Equipment market by product type, application, key manufacturers and key regions and countries.

Segmentation by Measurement Architecture:

Single Path Acoustic Measurement

Multi Path Acoustic Measurement

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Segmentation by Technology Route:

Sound-Velocity Pyrometry

Acoustic Resonance Thermometry

Others

Segmentation by Key Component Technology:

Pneumatic Acoustic Source

Spark Discharge Acoustic Source

PiezoelectricSource

High-Temperature Microphone

Others

Segmentation by Application:

Power Generation

Waste to Energy and Environmental Services

Iron and Steel

Refining and Petrochemicals

Pulp and Paper

Building Materials

Others

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This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia

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Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

Bonnenberg & Drescher GmbH

Valmet Oyj

Scientific Environmental Instruments, Inc.

Beijing Allinby Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Acoustic Temperature Measurement Equipment market?

What factors are driving Acoustic Temperature Measurement Equipment market growth, globally and by region?

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

How do Acoustic Temperature Measurement Equipment market opportunities vary by end market size?

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How does Acoustic Temperature Measurement Equipment break out by Measurement Architecture, by Application?

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