

# **Global Acoustic Emission Testing Market Size study, By Equipment Type (Sensors, Amplifiers, Detection Instruments) By Industry Vertical (Chemical and Petrochemical, Oil and Gas, Energy and Power, Automotive, Food and Beverages, Healthcare, Others) and Regional Forecasts 2022-2032**

<https://marketpublishers.com/r/GF68316242E5EN.html>

Date: July 2024

Pages: 200

Price: US\$ 6,250.00 (Single User License)

ID: GF68316242E5EN

## **Abstracts**

Global Acoustic Emission Testing Market is valued at approximately USD 2720.21 million in 2023 and is anticipated to grow with a healthy growth rate of more than 5.82% over the forecast period 2024-2032. Acoustic emission testing is a non-destructive testing technique used to detect and locate sources of acoustic energy in materials. It is commonly employed to assess the structural integrity of materials, particularly metals and composites. These tests could be applied in various industries, including aerospace, manufacturing, construction, and civil engineering, to ensure the safety and reliability of structures and components. The rising focus on improvement of production quality is gaining attention in Global Acoustic Emission Testing Market. Acoustic emission testing allows for the early detection of defects such as cracks, voids, and delamination in materials. Identifying these difficulties during the manufacturing process allows manufacturers to take corrective measures prior to failure, resulting in higher-quality finished products.

The Global Acoustic Emission Testing Market is driven by a growing rate of industrialization and supportive government initiatives towards promotion of non-destructive testing across the world. Acoustic emission testing enables manufacturers to optimize their production processes by identifying and addressing issues that could lead to downtime, rework, or product failures. By detecting defects early, companies are minimizing waste, reduce costs, and maximize output. In addition, governments around

the world frequently invest in infrastructure development projects, including transportation networks, energy facilities, and public utilities. Acoustic emission testing is crucial for ensuring the structural integrity and safety of these infrastructure assets. Supportive government initiatives allocate funding for NDT technologies to assess and monitor the condition of critical infrastructure, thereby promoting the adoption of acoustic emission testing solutions. However, the high cost of acoustic emission testing and lack of a skilled workforce is going to impede the overall demand for the market during the forecast period 2024-2032.

The key regions considered for the Global Acoustic Emission Testing market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, North America was the dominating regional market in terms of revenue owing to factors such as rising strategic initiatives towards modernization of aging infrastructure. Modernizing aging infrastructure involves significant investments in repairs, upgrades, and rehabilitation. Acoustic emission testing offers a cost-effective solution for assessing the condition of infrastructure components without the need for extensive downtime or costly invasive inspection methods. Whereas, the market in Asia Pacific is expected to develop at the fastest rate over the forecast period 2024-2032.

Major market players included in this report are:

Olympus Corporation  
Wave Industries Pvt. Ltd  
Isco International LLC  
T?V Nord Group  
Structural Vibration Solutions A/S  
Ashtead Technology Ltd  
Physibel C.V.  
Mistras Group  
Vallen Systeme GmbH  
Eddyfi Technologies Limited

The detailed segments and sub-segment of the market are explained below:

By Equipment Type

Sensors  
Amplifiers  
Detection Instruments

By Industry Vertical

Chemical and Petrochemical

Oil and Gas  
Energy and Power  
Automotive  
Food and Beverages  
Healthcare  
Others

By Region:

North America  
U.S.  
Canada  
Europe  
UK  
Germany  
France  
Spain  
Italy  
ROE  
Asia Pacific  
China  
India  
Japan  
Australia  
South Korea  
RoAPAC  
Latin America  
Brazil  
Mexico  
Middle East & Africa  
Saudi Arabia  
South Africa  
RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

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