

Global Acoustic Biosensors Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G5C6688EA378EN.html>

Date: January 2024

Pages: 111

Price: US\$ 3,480.00 (Single User License)

ID: G5C6688EA378EN

Abstracts

According to our (Global Info Research) latest study, the global Acoustic Biosensors market size was valued at USD 23 million in 2023 and is forecast to a readjusted size of USD 36 million by 2030 with a CAGR of 6.8% during review period.

Acoustic wave sensors operate by monitoring the change in the physical properties of an acoustic wave in response to the measurand. Piezoelectric materials (crystalline solids lacking a centre of inversion symmetry and representing strong coupling between mechanical strain and electrical polarization) are commonly employed in acoustic sensors to generate acoustic waves in solid materials using appropriately tailored electric fields and to detect the acoustic waves by the charge generated due to the induced mechanical deformation. Quartz is commonly used as it is abundant, amenable to low-cost volume manufacturing and is associated with excellent mechanical properties and good chemical stability. Depending on the cut of the quartz crystal, different properties can be realized. There are two traditional 'cuts' for the quartz crystal used in acoustic sensors: the AT cut and the ST cut. These differences cause different piezoelectric deformations, which allow acoustic waves to efficiently propagate in different directions: either along the surface of the sensor, or away from the sensor surface towards the bulk substrate. This distinction is quite important and is the basis of the classification of acoustic sensors into either surface acoustic wave (SAW) or bulk acoustic wave (BAW) sensors.

Global key players of acoustic biosensors include Biolin Scientific (Addlife), AWSensors, Quartz Pro, INFICON, etc. Global top four manufacturers hold a share over 53%. The key players are mainly located in North America, Europe, Japan, China. In terms of product, Quartz Crystal Microbalance Sensor is the largest segment, with a share over

87%. And in terms of application, the most widespread application scenarios is university, with a share over 57%.

The Global Info Research report includes an overview of the development of the Acoustic Biosensors industry chain, the market status of University (Quartz Crystal Microbalance (QCM) Sensor, Surface Acoustic Wave (SAW) Sensor), Research institutions (Quartz Crystal Microbalance (QCM) Sensor, Surface Acoustic Wave (SAW) Sensor), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Acoustic Biosensors.

Regionally, the report analyzes the Acoustic Biosensors markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Acoustic Biosensors market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Acoustic Biosensors market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Acoustic Biosensors industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Quartz Crystal Microbalance (QCM) Sensor, Surface Acoustic Wave (SAW) Sensor).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Acoustic Biosensors market.

Regional Analysis: The report involves examining the Acoustic Biosensors market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour

to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Acoustic Biosensors market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Acoustic Biosensors:

Company Analysis: Report covers individual Acoustic Biosensors manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Acoustic Biosensors. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (University, Research institutions).

Technology Analysis: Report covers specific technologies relevant to Acoustic Biosensors. It assesses the current state, advancements, and potential future developments in Acoustic Biosensors areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Acoustic Biosensors market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Acoustic Biosensors market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Quartz Crystal Microbalance (QCM) Sensor

Surface Acoustic Wave (SAW) Sensor

Market segment by Application

University

Research institutions

Company

Major players covered

Biolin Scientific (Addlife)

AWSensors

Quartz Pro

INFICON

MicroVacuum

3T analytik

Gamry Instruments

Shenzhen Renlu Technology

MS Tech

SAW Components Dresden

NDK

SenSanna

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)

The content of the study subjects, includes a total of 15 chapters:

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

Chapter 2, to profile the top manufacturers of Acoustic Biosensors, with price, sales, revenue and global market share of Acoustic Biosensors from 2019 to 2024.

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

Chapter 4, the Acoustic Biosensors breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Acoustic Biosensors market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Biosensors.

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

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