

Acoustic Wave Sensors in Biology Market, Global Outlook and Forecast 2022-2028

<https://marketpublishers.com/r/A54B37CFD02FEN.html>

Date: June 2022

Pages: 79

Price: US\$ 3,250.00 (Single User License)

ID: A54B37CFD02FEN

Abstracts

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.

This report contains market size and forecasts of Acoustic Wave Sensors in Biology in global, including the following market information:

Global Acoustic Wave Sensors in Biology Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Acoustic Wave Sensors in Biology Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five Acoustic Wave Sensors in Biology companies in 2021 (%)

The global Acoustic Wave Sensors in Biology market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period 2022-2028.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Quartz Crystal Microbalance (QCM) Sensor Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Acoustic Wave Sensors in Biology include Biolin Scientific (Addlife), AWSensors, Quartz Pro, INFICON, MicroVacuum, 3T analytik, Gamry Instruments, Shenzhen Renlu Technology and MS Tech, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Acoustic Wave Sensors in Biology manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Acoustic Wave Sensors in Biology Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Acoustic Wave Sensors in Biology Market Segment Percentages, by Type, 2021 (%)

Quartz Crystal Microbalance (QCM) Sensor

Surface Acoustic Wave (SAW) Sensor

Global Acoustic Wave Sensors in Biology Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Acoustic Wave Sensors in Biology Market Segment Percentages, by Application,

2021 (%)

University

Research institutions

Company

Global Acoustic Wave Sensors in Biology Market, By Region and Country, 2017-2022,
2023-2028 (\$ Millions) & (K Units)

Global Acoustic Wave Sensors in Biology Market Segment Percentages, By Region and
Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Acoustic Wave Sensors in Biology revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Acoustic Wave Sensors in Biology revenues share in global market, 2021 (%)

Key companies Acoustic Wave Sensors in Biology sales in global market, 2017-2022 (Estimated), (K Units)

Key companies Acoustic Wave Sensors in Biology sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Biolin Scientific (Addlife)

AWSensors

Quartz Pro

INFICON

MicroVacuum

3T analytik

Gamry Instruments

Shenzhen Renlu Technology

MS Tech

SAW Components Dresden

NDK

SenSanna

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