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Global Surface Acoustic Wave Gas Sensors Market Growth 2026-2032

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Abstracts

The global Surface Acoustic Wave Gas Sensors market size is predicted to grow from US$ 90 million in 2025 to US$ 134 million in 2032; it is expected to grow at a CAGR of 5.9% from 2026 to 2032.

In 2024, global production of Surface Acoustic Wave Gas Sensors reached approximately 420 thousand units, with an average global market price of around USD 210 per unit. Surface Acoustic Wave Gas Sensors are advanced gas detection devices that utilize the propagation of surface acoustic waves along a piezoelectric substrate to detect the presence and concentration of gas molecules. When target gas molecules adsorb onto a chemically sensitive coating on the sensor's surface, they change the mass and viscoelastic properties of the coating, which alters the velocity and amplitude of the acoustic waves. These changes are measured as shifts in frequency or phase, providing highly sensitive, selective, and real-time detection of gases at very low concentrations.

United States market for Surface Acoustic Wave Gas Sensors is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Surface Acoustic Wave Gas Sensors is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Surface Acoustic Wave Gas Sensors is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Surface Acoustic Wave Gas Sensors players cover Honeywell, Siemens,

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General Electric, Vectron, Qualtre, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Surface Acoustic Wave Gas Sensors 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 Surface Acoustic Wave Gas Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Surface Acoustic Wave Gas Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Surface Acoustic Wave Gas Sensors and breaks down the forecast by Type, 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 Surface Acoustic Wave Gas Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Surface Acoustic Wave Gas Sensors market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Polymer-coated SAW Gas Sensors

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Metal oxide-coated SAW Gas Sensors

Carbon-based SAW Gas Sensors

Segmentation by Application:

Medical Devices

Automotive

Industrial Manufacturing

Environmental & Safety Devices

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

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- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

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.

- Honeywell
- Siemens

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General Electric

Vectron

Qualtre

SENSeOR

Electronic Sensor Technology

CTS Corporation

Transense Technology

Biosensor Applications Sweden

SAW Components Dresden

Murata Manufacturing

KYOCERA AVX

Taiyo Yuden

TDK Electronics

Raltron Electronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Surface Acoustic Wave Gas Sensors market?

What factors are driving Surface Acoustic Wave Gas Sensors market growth, globally and by region?

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

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How do Surface Acoustic Wave Gas Sensors market opportunities vary by end market size?

How does Surface Acoustic Wave Gas Sensors break out by Type, by Application?

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