

Global Silicon Resonant Pressure Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Resonant Pressure Sensor market size was valued at US\$ 410 million in 2025 and is forecast to a readjusted size of US\$ 798 million by 2032 with a CAGR of 10.7% during review period.

Silicon resonant pressure sensor is a high-precision, high-performance pressure sensor. This sensor adopts a silicon resonant beam structure and works through electromagnetic excitation and electromagnetic vibration pickup. The output is a frequency signal, which has strong anti-interference ability and good stability. , no need for A/D conversion and other advantages.

The selling price ranges from US\$1,200 to US\$3,000 per unit, with an industry gross margin typically exceeding 40%-50%.

The core raw materials include high-purity monocrystalline silicon wafers, SOI (silicon on insulator) wafers, and special vacuum solder for packaging. Manufacturing equipment heavily relies on deep reactive ion etching (DRIE), wafer bonding machines, and vacuum fine packaging lines, as resonators must operate in an ultra-high vacuum environment to maintain their quality factor. The midstream involves the integration of chip design, wafer fabrication, and signal conditioning circuits. Manufacturers need to design highly sensitive resonant beams or H-shaped resonator structures through precision simulation and strictly control residual stress during production. The downstream primarily serves high-value, high-reliability terminal markets.

The development drivers of silicon resonant pressure sensors primarily stem from national strategic needs, technological iteration and upgrading, and the growing

demand for high-precision measurements across multiple fields. At the national level, it has been identified as a 'bottleneck' critical technology, with clear policy guidance for building an independent and controllable industrial chain. On the technical front, the maturation of MEMS processes has enabled sensors to achieve high precision ($\pm 0.01\%$ F.S.), miniaturization, and cost reduction, while advancements such as AI compensation algorithms and dual-resonator structural optimizations further enhance their anti-interference capabilities and intelligent performance. In terms of market demand, the rigid need for high stability and wide-temperature-range sensing continues to expand in fields such as aerospace (e.g., aircraft atmospheric data systems) and meteorological and oceanic monitoring.

This report is a detailed and comprehensive analysis for global Silicon Resonant Pressure Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Silicon Resonant Pressure Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silicon Resonant Pressure Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silicon Resonant Pressure Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Silicon Resonant Pressure Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Silicon Resonant Pressure Sensor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Silicon Resonant Pressure Sensor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Druck, Yokogawa Electric, Simitech, Shandong Zhongkesier Technology, HUAV, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Silicon Resonant Pressure Sensor market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Precision $\pm 0.01\%$ FS

Precision $\pm 0.02\%$ FS

Market segment by Resonator Structure

Beam Type

Diaphragm Type

Market segment by Excitation Methods

Electrostatic

Piezoelectric/Electromagnetic

Market segment by Application

Aerospace

Industrial Control

Meteorological Monitoring

Other

Major players covered

Druck

Yokogawa Electric

Simitech

Shandong Zhongkesier Technology

HUAV

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 Silicon Resonant Pressure Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Resonant Pressure Sensor, with

price, sales quantity, revenue, and global market share of Silicon Resonant Pressure Sensor from 2021 to 2026.

Chapter 3, the Silicon Resonant Pressure Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Resonant Pressure Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Silicon Resonant Pressure Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Silicon Resonant Pressure Sensor.

Chapter 14 and 15, to describe Silicon Resonant Pressure Sensor sales channel, distributors, customers, research findings and conclusion.

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