

Global Piezoresistive Pressure Sensors Market Growth 2025-2031

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Abstracts

The global Piezoresistive Pressure Sensors market size is predicted to grow from US\$ 938 million in 2025 to US\$ 1147 million in 2031; it is expected to grow at a CAGR of 3.4% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Piezoresistive pressure sensors are devices that convert mechanical pressure into electrical signals based on the piezoresistive effect. The core working principle involves a change in the electrical resistance of sensitive elements—typically made of monocrystalline or polycrystalline silicon—when mechanical stress is applied. This resistance change is then converted into an electrical signal proportional to the applied pressure via a Wheatstone bridge circuit. Compared to other types of pressure sensors, piezoresistive sensors offer several advantages, including high sensitivity, good stability, simple structure, and relatively low cost. As a result, they are widely used in automotive electronics, industrial control, medical equipment, aerospace, and other sectors.

In recent years, with the advancement of MEMS (Micro-Electro-Mechanical Systems) technology, piezoresistive pressure sensors have been evolving toward miniaturization, integration, and intelligence, with continuous improvements in performance and reliability. These sensors are particularly well-suited for applications requiring long-term stability and high measurement accuracy. Owing to their mature manufacturing processes and compatibility with large-scale silicon-based production, piezoresistive pressure sensors have become one of the most mainstream and widely adopted

technologies in the field of pressure sensing.

Market Development Opportunities & Main Driving Factors

Piezoresistive pressure sensors, with advantages such as high sensitivity, cost-effectiveness, and mature manufacturing processes, are widely used across automotive, industrial, and medical sectors. The growing demand for high-performance and miniaturized sensors in fast-developing areas—such as new energy vehicles, autonomous driving, smart manufacturing, and wearable devices—is a key driver of market growth. Meanwhile, advancements in MEMS technology are accelerating the trend toward miniaturization and integration, offering continuous momentum for the industry's expansion.

Market Challenges, Risks, & Restraints

The market is highly competitive, particularly in the mid- and low-end segments, where intense price wars significantly compress profit margins. In the high-end market, there are stringent requirements for sensor performance, reliability, and certifications, and domestic manufacturers still face gaps in terms of technology and brand recognition. Moreover, fluctuations in raw material prices, supply chain instability, and changes in the external environment add uncertainty and risk to the industry's development.

Downstream Demand Trends

Automotive electronics remain the primary demand driver, with increasing sensing needs in powertrain systems and battery management. The industrial sector is moving toward high precision and intelligent solutions, pushing for enhanced sensor performance. At the same time, the rapid growth in demand for miniaturized, high-sensitivity sensors in healthcare and consumer electronics is expanding the application scope of piezoresistive sensors.

LP Information, Inc. (LPI) ' newest research report, the “Piezoresistive Pressure Sensors Industry Forecast” looks at past sales and reviews total world Piezoresistive Pressure Sensors sales in 2024, providing a comprehensive analysis by region and market sector of projected Piezoresistive Pressure Sensors sales for 2025 through 2031. With Piezoresistive Pressure Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Piezoresistive Pressure Sensors industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Piezoresistive Pressure 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 Piezoresistive Pressure Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Piezoresistive Pressure Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Diffuse Silicon Piezoresistive

Ceramic Piezoresistive

Strain Gage Piezoresistive

Segmentation by Application:

Biomedical Applications

Automotive Industry

Household Appliances

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

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.

Amphenol Advanced Sensors

TE Connectivity

Bosch

NXP

Honeywell

Kistler

Micro Sensor

STMicroelectronics

Infineon

Murata

Merit Sensor

Sensata

CiS Forschungsinstitut

Melexis

Keller

Measurex

Key Questions Addressed in this Report

What is the 10-year outlook for the global Piezoresistive Pressure Sensors market?

What factors are driving Piezoresistive Pressure Sensors market growth, globally and by region?

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

How do Piezoresistive Pressure Sensors market opportunities vary by end market size?

How does Piezoresistive Pressure Sensors break out by Type, by Application?

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