

Global Piezoresistive Strain Gauge Transducers Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/P091B191D0E4EN.html>

Date: July 2025

Pages: 97

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

ID: P091B191D0E4EN

Abstracts

According to our (Global Info Research) latest study, the global Piezoresistive Strain Gauge Transducers market size was valued at US\$ 210 million in 2024 and is forecast to a readjusted size of USD 264 million by 2031 with a CAGR of 3.3% during review period.

Piezoresistive strain gauge transducers are one of the most common types of pressure sensors. They used the change in the material's resistance when stretched to measure pressure. These sensors are suitable for a variety of applications due to their simplicity and robustness.

In the harsh environment of the metal processing industry, achieving the right balance between accuracy, speed, and reliability of the sensing system is of great significance, and the strong demand for strain gauge sensors is attributed to the rapid development of the end-user industry. Numerous applications across industries are seen as a lucrative opportunity for this market. Strain gauge technology has a long history in aerospace applications. Strain gauges are bonded directly to structural load-bearing components. This helps measure stresses along the critical load path of wing deflection. It has long been used to maintain railway safety. Strain gages can be used in mines or where rail lines are placed on top of railroad tracks to measure stress and strain on the rails bonded to each rail. Strain gauges are used to measure the torque applied by a motor, turbine or engine to a fan, generator, wheel or propeller. Such equipment is widely used in power plants, ships, refineries, automobiles and throughout industry. Strain gauges are used in smart bridge technology, which enables efficient and effective real-time monitoring, which helps in thorough inspection of bridges. Evaluate bridges for structural damage on site, including visual inspection, dye penetrant testing, and many

other techniques.

This report is a detailed and comprehensive analysis for global Piezoresistive Strain Gauge Transducers 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 Piezoresistive Strain Gauge Transducers market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Piezoresistive Strain Gauge Transducers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Piezoresistive Strain Gauge Transducers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Piezoresistive Strain Gauge Transducers market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Piezoresistive Strain Gauge Transducers
To forecast future growth in each product and end-use market
To forecast future factors affecting the marketplace

This report profiles key players in the global Piezoresistive Strain Gauge Transducers 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 Vishay, HBM, NMB, KYOWA,

TML, HPI, Zemic, Yiling, HYCSYQ, Piezo-Metrics, etc.

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

Market Segmentation

Piezoresistive Strain Gauge Transducers market is split by Type and by Application. For the period 2020-2031, 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

Foil Strain Gage

Wire Strain Gage

Semiconductor Strain Gage

Market segment by Application

Load Transducer

Pressure Transducer

Torque Transducer

Others

Major players covered

Vishay

HBM

NMB

KYOWA

TML

HPI

Zemic

Yiling

HYCSYQ

Piezo-Metrics

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 Piezoresistive Strain Gauge Transducers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Piezoresistive Strain Gauge Transducers, with price, sales quantity, revenue, and global market share of Piezoresistive Strain Gauge Transducers from 2020 to 2025.

Chapter 3, the Piezoresistive Strain Gauge Transducers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Piezoresistive Strain Gauge Transducers breakdown data are shown at

the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Piezoresistive Strain Gauge Transducers market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Piezoresistive Strain Gauge Transducers.

Chapter 14 and 15, to describe Piezoresistive Strain Gauge Transducers sales channel, distributors, customers, research findings and conclusion.

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