

Global Strain Gauge Sensors Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Strain Gauge Sensors market size will reach 224.11 Million USD in 2025 and is projected to reach 272.27 Million USD by 2032, with a CAGR of 2.82% (2025-2032). Notably, the China Strain Gauge Sensors market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Strain gauge sensors are devices utilized to measure the deformation or strain experienced by an object when subjected to external forces, pressures, or loads. These sensors typically incorporate one or more strain gauges, which are bonded to the surface of the object under study. As the object deforms in response to the applied load, the strain gauge(s) undergo a change in length, resulting in a corresponding alteration in electrical resistance. This variation in resistance is then transformed into an electrical signal proportional to the applied strain, which can be analyzed using electronic instrumentation. Strain gauge sensors are available in various configurations and designs to cater to diverse measurement requirements, finding extensive application in fields such as structural engineering, materials testing, load monitoring, automotive engineering, aerospace, geotechnical engineering, and biomechanics. They play a crucial role in assessing the performance, durability, and safety of structures, components, and materials, facilitating informed decision-making and optimization of engineering processes.

The major global manufacturers of Strain Gauge Sensors include Vishay, HBM, NMB, KYOWA, Zemic, Yiling, HYCSYQ, LCT, Hualanhai, Omega, TML, BCM, Piezo-Metrics, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Strain Gauge Sensors. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Strain Gauge Sensors market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Strain Gauge Sensors market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Strain Gauge Sensors industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Strain Gauge Sensors Include:

Vishay

HBM

NMB

KYOWA

Zemic

Yiling

HYCSYQ

LCT

Hualanhai

Omega

TML

BCM

Piezo-Metrics

Strain Gauge Sensors Product Segment Include:

Metal Strain Gauge Sensors

Semiconductor Strain Gauge Sensors

Strain Gauge Sensors Product Application Include:

Weighing Equipment

Aerospace

Cranes

Others

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