

Global Resistance Strain Gauge Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Resistance Strain Gauge market size will reach 147.28 Million USD in 2025 and is projected to reach 166.87 Million USD by 2032, with a CAGR of 1.80% (2025-2032). Notably, the China Resistance Strain Gauge 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

A resistance strain gauge is a sensing device used to measure mechanical deformation or strain in materials. It typically consists of a thin, elongated wire or foil grid pattern that is bonded to the surface of the material undergoing deformation. As the material experiences strain, the dimensions of the grid change, leading to a proportional change in electrical resistance. This change in resistance is then measured and correlated with the applied strain, providing a precise and reliable means of quantifying mechanical deformation in structures or materials. Resistance strain gauges find extensive use in engineering, materials testing, and structural analysis, aiding in the assessment of stress, fatigue, and load-bearing capabilities of various components in industries ranging from aerospace to civil engineering. These gauges play a crucial role in ensuring the structural integrity and safety of diverse systems by providing valuable data on how materials respond to external forces.

The major global manufacturers of Resistance Strain Gauge include Vishay, HBM, NMB, KYOWA, TML, Zemic, HPI, Yiling, HYCSYQ, 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 Resistance Strain Gauge. 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 Resistance Strain Gauge 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 Resistance Strain Gauge 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 Resistance Strain Gauge 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 Resistance Strain Gauge Include:

Vishay

HBM

NMB

KYOWA

TML

Zemic

HPI

Yiling

HYCSYQ

Piezo-Metrics

Resistance Strain Gauge Product Segment Include:

Foil Strain Gauge

Wire Strain Gauge

Semiconductor Strain Gauge

Resistance Strain Gauge Product Application Include:

Load Cells

Pressure Transducer

Torque Transducer

Others

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