

Global 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 Strain Gauge market size will reach 235.94 Million USD in 2025 and is projected to reach 306.12 Million USD by 2032, with a CAGR of 3.79% (2025-2032). Notably, the China 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 strain gauge is a sensor used to measure the strain or deformation of an object caused by an applied force, pressure, or mechanical load. It works on the principle of electrical resistance variation in response to mechanical strain. Typically, a strain gauge consists of a thin wire or foil patterned in a grid-like structure and bonded to the surface of the object under measurement. As the object undergoes deformation due to an applied force, the strain gauge experiences a change in length, causing the wire or foil to stretch or compress. This change in length alters the electrical resistance of the gauge, which can be measured using a Wheatstone bridge circuit or similar electronic instrumentation. By monitoring the change in resistance, the strain gauge can accurately quantify the amount of strain or deformation experienced by the object, providing valuable data for structural analysis, material testing, load monitoring, and other engineering applications. Strain gauges are widely used in fields such as civil engineering, aerospace, automotive, manufacturing, and biomechanics for precise and reliable measurement of mechanical strain and stress.

The major global manufacturers of Strain Gauge include Vishay, HBM, Mettler-Toledo,

Flintec, Minebea, ZEMIC, KeLi Sensing Technology, Ningbo Boda, Dongguan SouthChinaSea, Guangzhou Electrical Measuring Instruments Factory, 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. 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 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 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 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 Include:

Vishay

HBM

Mettler-Toledo

Flintec

Minebea

ZEMIC

KeLi Sensing Technology

Ningbo Boda

Dongguan SouthChinaSea

Guangzhou Electrical Measuring Instruments Factory

Strain Gauge Product Segment Include:

Alloy Steel Sensor

Stainless Steel Sensor

Aluminum Sensor

Strain Gauge Product Application Include:

Commercial Weighing

Industrial Measurement and Control

Automobile Comprehensive Performance Testing

Other

Chapter Scope

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