

Global Strain Gauge Market Growth 2025-2031

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Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Strain Gauge market size is predicted to grow from US\$ 207 million in 2025 to US\$ 269 million in 2031; it is expected to grow at a CAGR of 4.5% from 2025 to 2031.

Strain gages are devices whose resistance changes under the application of force or strain. They can be used for measurement of force, strain, stress, pressure, displacement, acceleration etc.

Strain gages are of the structure, in which a metallic foil film in the thickness of a few microns is glued on a thin electrically insulated sheet (such as polyimide, polyester and so on). This foil film is cut down by photo-etching method in the shape of strain gages which can be made with the negative film masks of the strain gage patterns. These photo-etched strain gage patterns are trimmed to have a standard resistance value satisfying requirements as the strain gages. In addition, for strain gages in general applications, thermal resistance factors of the foil films are controlled to have three categories to match with the thermal elongation factors of 3 major and most popular materials of mild steel/11ppm, stainless steel/16ppm and aluminium alloy/23ppm, for which our strain gages can be self-temperature compensated to minimize temperature effects if specified so when ordering.

Global Strain Gauge main players include VPG, HBM, Zemic, Yiling, HYCSYQ, NMB

, etc. China is the largest market, with a share over 26%. As for the types of products, it can be divided into stress analysis type, transducer type and others (for special applications). The most common product is stress analysis type, with a share over 63%. In terms of applications, it is widely used in electronics and measurement, construction,

industrial and others. The most common application is electronics and measurement, with a share over 29%.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Strain Gauge 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 Strain Gauge.

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

Segmentation by Type:

Stress Analysis Type

Transducer Type

Others (for Special Applications)

Segmentation by Application:

Electronics and Measurement

Construction

Industrial

Others

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.

VPG

HBM

Zemic

Yiling

HYCSYQ

NMB

KYOWA

LCT

Omega

TML

BCM

Piezo-Metrics

Hualanhai

Key Questions Addressed in this Report

What is the 10-year outlook for the global Strain Gauge market?

What factors are driving Strain Gauge market growth, globally and by region?

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

How do Strain Gauge market opportunities vary by end market size?

How does Strain Gauge break out by Type, by Application?

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