

Global Resistance Strain Gauge Market Growth 2026-2032

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Abstracts

The global Resistance Strain Gauge market size is predicted to grow from US\$ 175 million in 2025 to US\$ 242 million in 2032; it is expected to grow at a CAGR of 4.7% from 2026 to 2032.

A resistance strain gauge (also known as a strain gauge or strain sensor) is a sensing element used to measure the deformation of a material or structure. It typically consists of a conductive metal foil (such as copper, platinum, or gold) or a conductive film bonded to a flexible substrate and connected to a circuit via leads. When the object being measured is subjected to force, temperature, or other stresses, resulting in minute strain, the strain gauge undergoes minute changes in shape and size, causing a change in its resistance value. By measuring the change in resistance ΔR and combining it with the gauge factor (GF), the strain ϵ can be calculated, thereby inferring the stress, deformation distribution, or structural health. Strain gauges are widely used in structural health monitoring, materials mechanics research, engineering testing, and quality control. The product is priced at \$669 per thousand pieces, with global sales of 267.65 million pieces. The industry's gross profit margin is around 30%. The upstream of the resistance strain gauge industry chain includes nichrome wire, constantan foil, and polyimide, the midstream consists of resistance strain gauge manufacturers, and the downstream mainly includes general stress testing and the construction industry.

The resistance strain gauge market is currently experiencing sustained growth, driven by the stable demand for high-precision deformation measurement from industries such as structural health monitoring, aerospace, automotive, construction, and energy. With advancements in multi-channel data acquisition, wireless sensing, temperature compensation, and thin-film and flexible substrate technologies, the market is expanding from traditional metal foil strain gauges to thin-film, flexible, full-bridge/half-

bridge integrated, and intelligent sensing solutions. Simultaneously, increasing demands for reliability, long-term stability, ease of assembly, and cost-effectiveness have led to competition between global and local manufacturers, and application areas are continuously expanding to materials research and development, industrial automation, and infrastructure monitoring.

LP Information, Inc. (LPI) ' newest research report, the "Resistance Strain Gauge Industry Forecast" looks at past sales and reviews total world Resistance Strain Gauge sales in 2025, providing a comprehensive analysis by region and market sector of projected Resistance Strain Gauge sales for 2026 through 2032. With Resistance Strain Gauge sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Resistance Strain Gauge industry.

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

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

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

Segmentation by Type:

Foil Type

Wire Type

Others

Segmentation by Installation Method:

Adhesive Type

Embedded Type

Others

Segmentation by Application Environment:

Normal Temperature Type

High Temperature Type

Others

Segmentation by Application:

General Stress Measurement

Construction (Concrete and Mortar)

Composite Materials, Plastics and Rubber

High Temperature Measurement

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.

HBK (formerly HBM)

Vishay (Micro-Measurements)

MinebeaMitsumi

KYOWA

Omega

TML

BCM

ZEMIC

HUA LAN HAI

Guangzhou electrical measuring instruments factory

LCT

ZHEJIANG HUANGYAN TESTING INSTRUMENT FACTORY

Key Questions Addressed in this Report

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

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

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

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

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

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