

Global Metallic Strain Gauge Market Growth 2026-2032

<https://marketpublishers.com/r/GA382395067DEN.html>

Date: July 2026

Pages: 119

Price: US\$ 3,660.00 (Single User License)

ID: GA382395067DEN

Abstracts

The global Metallic Strain Gauge market size is predicted to grow from US\$ 175 million in 2025 to US\$ 240 million in 2032; it is expected to grow at a CAGR of 4.7% from 2026 to 2032.

In 2025, the global production volume of metal-type strain gauges is projected to reach 261.73 million units, with an average selling price of \$684 per thousand units. The global annual production capacity for metal-type strain gauges stands at approximately 1.59 billion units, with a gross profit margin of approximately 32.31%. A metal-type strain gauge is a sensor that utilizes the piezoresistive effect of metallic materials to convert mechanical strain into electrical signals. Its core component is the metal sensing grid—typically fabricated from metal wire or foil—which is secured to a substrate using an adhesive. When strain occurs on the surface of the object under measurement, the metal sensing grid deforms accordingly, resulting in a change in its electrical resistance. This change is subsequently converted by a measurement circuit into a voltage or current output signal, thereby enabling the measurement of the applied strain. Upstream raw materials for metal-type strain gauges include nickel-chromium wire, constantan foil, polyimide, and similar materials. The midstream segment consists of the manufacturers of metal-type strain gauges, while the downstream market primarily encompasses sectors such as general stress measurement and construction.

As a traditional core component within the sensor industry, the market for metal-foil strain gauges has entered a phase of high maturity and steady growth. Demand for this product remains robust—and largely irreplaceable—across traditional application sectors such as structural health monitoring, industrial automation, aerospace structural testing, weighing systems, and pressure sensing. Manufacturing operations are primarily concentrated in the Asia-Pacific region; meanwhile, established enterprises in Japan (e.g., Tokyo Measuring Instruments Laboratory/TML), the United States (e.g., Vishay Micro-Measurements), and Germany (e.g., HBM) continue to dominate the high-end

market. Leveraging decades of accumulated expertise in process precision and high reliability, these legacy firms command significant pricing power, particularly within the fields of aerospace certification and precision measurement. Conversely, domestic Chinese manufacturers possess ample production capacity in the mid-to-low-end market and are gradually penetrating various general industrial applications through the upgrading of automated production lines and cost optimization initiatives. In terms of current market trends, user demand is evolving from standalone strain gauges toward integrated sensing modules and digital output solutions; concurrently, flexible thin-film strain technology is emerging as a source of differentiated competition against traditional metal-foil solutions in certain consumer and medical application scenarios. Furthermore, the persistent pursuit of long-term stability in extreme environments, such as those characterized by high temperatures or high radiation levels, continues to drive incremental innovation in the alloy materials and packaging processes utilized for metal-foil strain gauges.

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

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

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

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

manufacturers and key regions and countries.

Segmentation by Type:

Foil Type

Wire Type

Others

Segmentation by Sensing Gate Materials:

Constantan Alloy

Ni-Chromium Alloy

Others

Segmentation by Epoxy Materials:

Epoxy Materials

Polyimide Materials

Others

Segmentation by Sensing Gate Structures:

Single-Axial

Biaxial

Triaxial

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 Metallic Strain Gauge market?

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

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

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

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

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