

Global Metallic Strain Meter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Metallic Strain Meter market size is expected to reach \$ 248 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

In 2025, the global production volume of metal-based strain gauges reached 261.73 million units, with an average selling price of \$684 per thousand units. The global annual production capacity for metal-based strain gauges stands at approximately 1.59 billion units, with a gross margin of approximately 32.31%. A metal-based strain gauge is a sensor that utilizes the piezoresistive effect of metal materials to measure the strain of an object. Its core operating principle is as follows: when a metal material (such as a metal wire or foil) is subjected to external forces that induce tensile or compressive deformation, its length and cross-sectional area undergo changes, resulting in a corresponding alteration in its electrical resistance. By measuring this change in resistance, the magnitude of the strain on the object's surface can be calculated. Metal-based strain gauges typically consist of components such as a metal sensing grid, a substrate, a protective covering, and lead wires; common types include metal-wire strain gauges and metal-foil strain gauges. They are widely applied in fields such as engineering structure monitoring, mechanical testing, and industrial measurement, serving as an essential tool for quantifying minute deformations in objects. Upstream raw materials for metal-based strain gauges include nickel-chromium wire, constantan foil, and polyimide, among others. The midstream segment comprises the manufacturers of metal-based strain gauges, while the downstream market primarily consists of industries involved in general stress measurement, construction, and similar sectors.

The market for metal-based strain gauges is currently in a phase of steady growth, characterized by continuously rising demand. Traditional metal foil and metal wire strain

gauges remain the market mainstream, finding widespread application across sectors such as construction, industry, and aerospace for purposes ranging from structural health monitoring to stress testing. Driven by technological advancements, market demand for high precision, high reliability, temperature self-compensation capabilities, and intelligent sensing functions is on the rise, spurring product evolution toward thinner profiles and greater integration. The global competitive landscape is becoming increasingly diversified; while international giants such as HBK and Vishay dominate the high-end segment, domestic Chinese enterprises are gradually expanding their market share—particularly in general stress measurement and construction monitoring—leveraging both cost advantages and technological progress. Concurrently, factors such as tariff policies and supply chain realignments are exerting a notable influence on the market structure, prompting companies to accelerate the regionalization of their production capacities and the optimization of their supply chains.

This report studies the global Metallic Strain Meter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Metallic Strain Meter and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Metallic Strain Meter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Metallic Strain Meter total production and demand, 2021-2032, (K Pcs)

Global Metallic Strain Meter total production value, 2021-2032, (USD Million)

Global Metallic Strain Meter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Metallic Strain Meter consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Metallic Strain Meter domestic production, consumption, key domestic manufacturers and share

Global Metallic Strain Meter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Metallic Strain Meter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Metallic Strain Meter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Metallic Strain Meter market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include HBK (formerly HBM), Vishay (Micro-Measurements), MinebeaMitsumi, KYOWA, Omega, TML, BCM, ZEMIC, HUA LAN HAI, Guangzhou electrical measuring instruments factory, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Metallic Strain Meter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Metallic Strain Meter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Metallic Strain Meter Market, Segmentation by Type:

Foil Type

Wire Type

Others

Global Metallic Strain Meter Market, Segmentation by Sensing Gate Materials:

Constantan Alloy

Ni-Chromium Alloy

Others

Global Metallic Strain Meter Market, Segmentation by Substrate Materials:

Epoxy Materials

Polyimide Materials

Others

Global Metallic Strain Meter Market, Segmentation by Sensing Gate Structures:

Single-Axial

Biaxial

Triaxial

Global Metallic Strain Meter Market, Segmentation by Application:

General Stress Measurement

Construction (Concrete and Mortar)

Composite Materials, Plastics and Rubber

High Temperature Measurement

Others

Companies Profiled:

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 Answered:

1. How big is the global Metallic Strain Meter market?

2. What is the demand of the global Metallic Strain Meter market?
3. What is the year over year growth of the global Metallic Strain Meter market?
4. What is the production and production value of the global Metallic Strain Meter market?
5. Who are the key producers in the global Metallic Strain Meter market?
6. What are the growth factors driving the market demand?

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