

Global Strain Measuring Instrument Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Strain Measuring Instrument market size is expected to reach \$ 1409 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

Strain gauges are precision instruments used to measure the deformation of materials under stress. By combining strain gauges or sensors with data acquisition devices, they enable real-time monitoring and analysis of strain curves. They are widely used in structural testing, materials mechanics research, and industrial online monitoring. Global sales in 2025 were approximately 350,000 units, with an average unit price of approximately US\$2,500 and a capacity utilization rate of approximately 76%. Typical upstream and downstream companies include manufacturers of high-precision sensors and strain gauges, suppliers of data acquisition and signal processing modules, and integrators of civil engineering instruments and laboratory testing equipment. The gross profit margin for these products is typically around 35%. The cost structure mainly consists of strain sensors and bridge circuit components (35%), data acquisition and processing electronic modules (30%), high-precision housing and mechanical structure (15%), and software analysis and display interface (10%). Calibration testing and quality assurance services comprise 10% of the market. On the demand side, the downstream demand list includes material performance testing, structural health monitoring, load stress analysis, fatigue testing, production line quality control, and scientific research and teaching experiments. The downstream customer list covers research institutions, material and structural testing centers, civil and mechanical engineering construction units, manufacturing enterprises, quality testing institutions, and energy and transportation infrastructure operation and maintenance units. On the business opportunity side, policy drivers include strengthened engineering quality and safety supervision, promotion of intelligent construction standards, and the advancement of national key industrial technological transformation, all of which increase demand for

precision measuring instruments. Technological innovation drivers include the development of digital signal processing and wireless transmission, intelligent diagnostic platforms, and automatic calibration technologies. Changes in consumer demands reflect the growing need for engineers and technicians to use more precise, portable, and user-friendly measuring equipment. These factors collectively promote the upgrading of the strain gauge market towards high-performance and intelligent directions, releasing long-term growth opportunities.

Strain measuring instruments quantify the measurement by dividing the deformation length of the material by the original length. Although it is important to determine the strength of a material by knowing the amount of pressure it can handle, it does not address the ductility of the material. Strain instruments help determine the ductility of materials and are an important tool for quantifying the ability of materials to undergo plastic deformation.

This report studies the global Strain Measuring Instrument production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Strain Measuring Instrument 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 Strain Measuring Instrument that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Strain Measuring Instrument total production and demand, 2021-2032, (K Units)

Global Strain Measuring Instrument total production value, 2021-2032, (USD Million)

Global Strain Measuring Instrument production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Strain Measuring Instrument consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Strain Measuring Instrument domestic production, consumption, key domestic manufacturers and share

Global Strain Measuring Instrument production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Strain Measuring Instrument production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Strain Measuring Instrument production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Strain Measuring Instrument 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 Minebea Mitsumi, Tokyo Measuring Instruments,

RST Instruments(Terra Insights), Omega, Kuebler, Kyowa, HBM, SMD, Zemic Europe, Sigmar Technology, 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 Strain Measuring Instrument market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Strain Measuring Instrument Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Strain Measuring Instrument Market, Segmentation by Type:

Dynamic Measuring Gauge

Static Measuring Gauge

Global Strain Measuring Instrument Market, Segmentation by Channels:

Single-Channel Type

Multi-channel Type

Global Strain Measuring Instrument Market, Segmentation by Measuring Principle:

Resistance Strain Gauge

Fiber Optic Strain Gauge

Vibrating Wire Strain Gauge

Global Strain Measuring Instrument Market, Segmentation by Application:

Scientific Experiment

Industrial Equipment Monitoring

Electrical Industry

Transportation

Other

Companies Profiled:

Minebea Mitsumi

Tokyo Measuring Instruments

RST Instruments(Terra Insights)

Omega

Kuebler

Kyowa

HBM

SMD

Zemic Europe

Sigmar Technology

Micro Measurements

NI

Althen

Haiying Technology

Matest

Soil Instruments

MICRO EPSILON

Key Questions Answered:

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

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