

Global Fiber Optic Strain Gauges Market Growth 2026-2032

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Abstracts

The global Fiber Optic Strain Gauges market size is predicted to grow from US\$ 215 million in 2025 to US\$ 287 million in 2032; it is expected to grow at a CAGR of 4.3% from 2026 to 2032.

Fiber optic strain gauges are a type of sensing element that utilizes optical effects in optical fibers (primarily wavelength drift, interference, and scattering of gratings) to measure minute deformations in materials or structures. A typical implementation involves attaching, embedding, or encapsulating a fiber Bragg grating (FBG) or an external/internal cavity interference structure onto the component under test. A demodulator reads the wavelength or phase changes and calculates the strain value in real time. Compared to metal foil strain gauges, fiber optic strain gauges offer advantages such as electromagnetic interference immunity, long-distance distributed measurement capability, operation in high-humidity, high-corrosion, and high-pressure environments, and easy coupling with temperature compensation, making them suitable for structural health monitoring and extreme environment testing. In environments with strong electromagnetic fields, long distances, dense locations, or high humidity and corrosion, traditional resistance strain gauges are susceptible to noise, cable loss, and environmental influences; fiber optic strain gauges achieve high interference immunity and distributed deployment through optical readout, reducing maintenance costs and improving the reliability of structural health monitoring. The product has an average price of approximately US\$2,809 per thousand units, and global sales of approximately 74.59 million units.

The upstream sector includes fiber and grating manufacturing (fiber diameter approximately 125 μ m, grating length 3-10 mm, customizable reflectivity and bandwidth), encapsulation materials and bonding processes (metal/composite/ceramic

carriers, weather resistance and temperature drift management), and demodulator core components (supporting multi-channel operation, sampling rates up to kHz, and wavelength resolution down to picometer levels). The midstream sector involves sensor packaging and system integration (with/without temperature compensation, bare fiber/embedded/encapsulated forms). The downstream sector targets civil engineering, marine engineering, aerospace, and energy. In terms of trends, distributed (Brillouin/Raman) and high-density FBG combined with edge computing and digital twins are accelerating the commercialization of large-scale SHM and in-service monitoring, while declining demodulation costs and standardized interfaces are driving scenario expansion.

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

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

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

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

Segmentation by Type:

No Temperature Compensation

With Temperature Compensation

Segmentation by Measurement Technology:

FBG

EFPI

Others

Segmentation by Packaging:

Bare Fiber Type

Embedded Type

Others

Segmentation by Application:

Civil Engineering

Geotechnical Engineering

Marine Industry

Aerospace

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.

Althen

Opsens Solutions

SCAIME

GEEKON

Polytec

Sensuron

Bestech

FBGS

Light Guide Solutions

Optromix

Roctest

Smartec

Key Questions Addressed in this Report

What is the 10-year outlook for the global Fiber Optic Strain Gauges market?

What factors are driving Fiber Optic Strain Gauges market growth, globally and by region?

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

How do Fiber Optic Strain Gauges market opportunities vary by end market size?

How does Fiber Optic Strain Gauges break out by Type, by Application?

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