

Global Fiber Bragg Grating Thermometer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fiber Bragg Grating Thermometer market size is expected to reach \$ 131 million by 2032, rising at a market growth of 9.0% CAGR during the forecast period (2026-2032).

Fiber bragg grating thermometers are passive fiber-optic temperature sensing devices that use a periodic refractive-index modulation written into the core of an optical fiber as the sensing element. When the local temperature changes, the grating period and effective refractive index vary, causing a measurable shift in the reflected Bragg wavelength. Commercial products include single-point temperature probes, multi-point temperature chains, wavelength-division multiplexed FBG arrays, stainless-steel or ceramic packaged thermometers, high-temperature regenerated or femtosecond-inscribed FBG probes, sapphire-fiber high-temperature sensors, cryogenic FBG temperature arrays, and reference temperature sensors used for compensation in FBG strain, pressure, displacement, and load measurements. These sensors are typically read by an FBG interrogator and are valued for electromagnetic immunity, intrinsic safety, long-distance signal transmission, multiplexing capability, compact form factor, and suitability for embedding in composites, concrete, metals, or harsh industrial structures. Major applications include structural health monitoring, bridges, dams, tunnels, oil and gas pipelines, switchgear, transformers, aerospace thermal structures, nuclear facilities, cryogenic systems, and high-temperature industrial process monitoring.

According to our research, FBG thermometers should be treated as a specialized branch of the fiber-optic sensing industry rather than a broad temperature-instrument category. The most appropriate market boundary is the FBG temperature sensing element, probe, temperature chain, and temperature array. If interrogators, software,

installation, and monitoring services are fully included, the addressable market becomes much larger but less comparable with the actual sensor manufacturing base. This study therefore adopts a narrow scope focused on companies that can design, package, manufacture, or supply Fiber Bragg Grating temperature sensors, while retaining selected upstream FBG component vendors and system-oriented suppliers in the extended longlist to avoid losing visibility into the broader supply chain.

Demand growth is driven less by replacement of ordinary temperature sensors and more by applications where electrical measurement technologies face clear constraints. Typical use cases include high electromagnetic interference, high voltage, explosive or intrinsically safe environments, long-distance multi-point sensing, corrosive media, embedded composite monitoring, nuclear or radiation-related environments, high temperature, and cryogenic systems. Power switchgear and transformers, bridges and tunnels, aerospace thermal structures, nuclear facilities, hydrogen and cryogenic storage, oil and gas assets, and industrial high-temperature processes are the major demand pools.

Product evolution is moving from standard stainless-steel or ceramic packaged probes toward high-temperature probes, cryogenic arrays, multi-point temperature chains, and field-installable engineering formats. Technica, OFSCN, and Shenzhen Photonic Sensor emphasize high-temperature or ultra-high-temperature routes; Proximion focuses on cryogenic FBG arrays; FBGS, Sylex, Smartec, and Smart Fibres are stronger in multi-point chains, structural monitoring, and embedded applications. Long-term competitiveness will depend not only on grating inscription but also on packaging, thermal hysteresis control, drift stability, calibration consistency, field installation reliability, and compatibility with interrogators and monitoring software.

This report studies the global Fiber Bragg Grating Thermometer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fiber Bragg Grating Thermometer 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 Fiber Bragg Grating Thermometer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fiber Bragg Grating Thermometer total production and demand, 2021-2032, (K Units)

Global Fiber Bragg Grating Thermometer total production value, 2021-2032, (USD Million)

Global Fiber Bragg Grating Thermometer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Fiber Bragg Grating Thermometer consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Fiber Bragg Grating Thermometer domestic production, consumption, key domestic manufacturers and share

Global Fiber Bragg Grating Thermometer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Fiber Bragg Grating Thermometer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Fiber Bragg Grating Thermometer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Fiber Bragg Grating Thermometer 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 Spectris plc, T&S Communications Co., Ltd., Luna Innovations Incorporated, Technica Optical Components, LLC, FBGS, Hexatronic Group AB, Tempsens Instruments Pvt. Ltd., Axiometrix Solutions, IDIL Fibres Optiques, Smart Fibres Ltd, 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 Fiber Bragg Grating Thermometer 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 Fiber Bragg Grating Thermometer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fiber Bragg Grating Thermometer Market, Segmentation by Type:

Single-point FBG Temperature Sensor

Multi-point FBG Temperature Chain

Other

Global Fiber Bragg Grating Thermometer Market, Segmentation by Measurement Form:

Point Measurement

Line-based Multi-point Measurement

Surface Temperature Measurement

Other

Global Fiber Bragg Grating Thermometer Market, Segmentation by Temperature Range:

Low-temperature FBG Sensor

Standard-temperature FBG Sensor

Medium-temperature FBG Sensor

High-temperature FBG Sensor

Ultra-high-temperature FBG Sensor

Global Fiber Bragg Grating Thermometer Market, Segmentation by Application:

Industrial

Aerospace

Medical

Environmental Monitoring

Others

Companies Profiled:

Spectris plc

T&S Communications Co., Ltd.

Luna Innovations Incorporated

Technica Optical Components, LLC

FBGS

Hexatronic Group AB

Tempsens Instruments Pvt. Ltd.

Axiometrix Solutions

IDIL Fibres Optiques

Smart Fibres Ltd

Sylex, s.r.o.

Roctest Ltd.

SAFIBRA s.r.o.

Shenzhen Photonic Sensor Technology Co., Ltd.

Beijing DCYS Technology Co., Ltd.

AtGrating Technologies

Cleveland Electric Laboratories

Geokang Technologies Co., Ltd.

Key Questions Answered:

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

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