

# Global Fiber Bragg Grating Sensors Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Fiber Bragg Grating Sensors market size was valued at USD 387.3 million in 2023 and is forecast to a readjusted size of USD 625.2 million by 2030 with a CAGR of 7.1% during review period.

Fiber Bragg Grating Sensors are sensors that reflects the wavelength of light that moves in response to changes in temperature and/or strain. Fiber Bragg gratings are made by laterally exposing the core of a single mode fiber to a periodic pattern of intense ultraviolet light.

In 2019, North America has the largest production capacity of Fiber Bragg Grating Sensors, accounting for about 32% of the global revenue, while Europe is the second-largest region-wise market (about 28%).

The main manufacturers are Luna Innovations, Proximion (Hexatronic), HBM (HBK), FBGS Technologies GmbH and ITF Technologies. The Top 5 took up about 47% of the global market in 2019.

Fiber Bragg Grating Sensors are mainly classified into the following types: Temperature Sensors, Strain Sensors and Others. Strain Sensors accounted for the largest part of the Sales volume market, with above 55% in 2019.

Fiber Bragg Grating Sensors have wide range of applications: Oil & Gas, Aerospace & Defense, Power Industry, Architecture Industry and Others. Architecture Industry consumed the largest part, with about 39% of the market share by sales volume in

2019, followed by Oil & Gas (about 19%).

The Global Info Research report includes an overview of the development of the Fiber Bragg Grating Sensors industry chain, the market status of Oil & Gas (Temperature Sensors, Strain Sensors), Aerospace & Defense (Temperature Sensors, Strain Sensors), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Fiber Bragg Grating Sensors.

Regionally, the report analyzes the Fiber Bragg Grating Sensors markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Fiber Bragg Grating Sensors market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Fiber Bragg Grating Sensors market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Fiber Bragg Grating Sensors industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Temperature Sensors, Strain Sensors).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Fiber Bragg Grating Sensors market.

**Regional Analysis:** The report involves examining the Fiber Bragg Grating Sensors market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future

projections and forecasts for the Fiber Bragg Grating Sensors market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Fiber Bragg Grating Sensors:

**Company Analysis:** Report covers individual Fiber Bragg Grating Sensors players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Fiber Bragg Grating Sensors. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Oil & Gas, Aerospace & Defense).

**Technology Analysis:** Report covers specific technologies relevant to Fiber Bragg Grating Sensors. It assesses the current state, advancements, and potential future developments in Fiber Bragg Grating Sensors areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Fiber Bragg Grating Sensors market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Fiber Bragg Grating Sensors market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

### Market segment by Type

Temperature Sensors

Strain Sensors

Others

### Market segment by Application

Oil & Gas

Aerospace & Defense

Power Industry

Architecture Industry

Others

### Market segment by players, this report covers

Luna Innovations

Proximion (Hexatronic)

HBM (HBK)

ITF Technologies Inc

FBGS Technologies GmbH

Technica

Smart Fibres Limited

Optromix, Inc.

Wuhan Ligong Guangke

FBG Korea

Smartec (Roctest)

Timbercon (Radiall)

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Fiber Bragg Grating Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Fiber Bragg Grating Sensors, with revenue, gross margin and global market share of Fiber Bragg Grating Sensors from 2019 to 2024.

Chapter 3, the Fiber Bragg Grating Sensors competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and Fiber Bragg Grating Sensors market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces

analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Fiber Bragg Grating Sensors.

Chapter 13, to describe Fiber Bragg Grating Sensors research findings and conclusion.

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