

# Global Fiber Optic Sensors Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Fiber Optic Sensors market size was valued at USD 1418.1 million in 2023 and is forecast to a readjusted size of USD 2909.9 million by 2030 with a CAGR of 10.8% during review period.

Fiber optic sensors are fiber-based devices for sensing some quantity, typically temperature or mechanical strain, but sometimes also displacements, vibrations, pressure, acceleration, rotations or concentrations of chemical species.

The general principle of such devices is that light from a laser (often a single-frequency fiber laser) or from a superluminescent source is sent through an optical fiber, experiences subtle changes of its parameters either in the fiber or in one or several fiber Bragg gratings, and then reaches a detector arrangement which measures these changes.

Compared with other types of sensors, fiber optic sensors exhibit a number of advantages:

- ? They consist of electrically insulating materials (no electric cables are required), which makes possible their use e.g. in high-voltage environments.
- ? They can be safely used in explosive environments, because there is no risk of electrical sparks, even in the case of defects.
- ? They are immune to electromagnetic interference (EMI), even to nearby lightning strikes, and do not themselves electrically disturb other devices.

? Their materials can be chemically passive, i.e., do not contaminate their surroundings and are not subject to corrosion.

? They have a very wide operating temperature range (much wider than is possible for many electronic devices).

? They have multiplexing capabilities: multiple sensors in a single fiber line can be interrogated with a single optical source

Micron Optics, Honeywell, FISO Technologies, Omron and FBGS TECHNOLOGIES GMBH are the top 5 manufacturers of global Fiber Optic Sensors, with about 39% market shares.

The Global Info Research report includes an overview of the development of the Fiber Optic Sensors industry chain, the market status of Oil & Gas (Intensity Modulated Fiber Optic Sensors, Phase Modulated Fiber Optic Sensors), Buildings and Bridges (Intensity Modulated Fiber Optic Sensors, Phase Modulated Fiber Optic Sensors), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Fiber Optic Sensors.

Regionally, the report analyzes the Fiber Optic 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 Optic Sensors market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Fiber Optic 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 Optic 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 sales quantity (Units), revenue generated, and market share of different by Type (e.g., Intensity Modulated Fiber Optic Sensors, Phase Modulated Fiber Optic

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 Optic Sensors market.

**Regional Analysis:** The report involves examining the Fiber Optic 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 Optic 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 Optic Sensors:

**Company Analysis:** Report covers individual Fiber Optic Sensors manufacturers, 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 Optic Sensors This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Oil & Gas, Buildings and Bridges).

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

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Fiber Optic 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 Optic 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 volume and value.

### Market segment by Type

Intensity Modulated Fiber Optic Sensors

Phase Modulated Fiber Optic Sensors

Wavelength Modulated Fiber Optic Sensors

Polarization Modulated Fiber Optic Sensors

### Market segment by Application

Oil & Gas

Buildings and Bridges

Tunnels

Dams

Heritage Structures

Power Grid

Aerospace Applications

### Major players covered

Micron Optics

Honeywell

FISO Technologies

Omron

FBGS TECHNOLOGIES GMBH

Proximion

Smart Fibres Limited

Sensornet

ITF Labs / 3SPGroup

Keyence

IFOS

NORTHROP GRUMMAN

O/E LAND, Inc

KVH

Photonics Laboratories

Chiral Photonics

FBG TECH

OPTOcon GmbH

Redondo Optics

Broptics

Wutos

Pegasus (Qingdao) Optoelectronics

BEIYANG

Bandweaver

DSC

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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

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

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

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

Chapter 2, to profile the top manufacturers of Fiber Optic Sensors, with price, sales, revenue and global market share of Fiber Optic Sensors from 2019 to 2024.

Chapter 3, the Fiber Optic Sensors competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Fiber Optic Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Fiber Optic Sensors market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Fiber Optic Sensors.

Chapter 14 and 15, to describe Fiber Optic Sensors sales channel, distributors, customers, research findings and conclusion.

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