

Global FBG Temperature Sensors Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global FBG Temperature Sensors market size was valued at US\$ 123 million in 2024 and is forecast to a readjusted size of USD 173 million by 2031 with a CAGR of 5.1% during review period.

Optic fiber Bragg Grating sensor for temperature measurement provide many advantages over conventional electrical systems, particularly in applications that are exposed to harsh environments and require long-range, long-term deployments.

Bragg grating sensor is a perfect option for a variety of applications. These sensors are insensitive to the environmental changes and passive, which is a big upgrade compared to the regular electrical ones. They have higher accuracy and resolution, and they are immune to electric sparks. Long reliability period, ability to resist corrosion and other harsh environments are packed in a very compact size device.

One of the biggest advantages of FBG temperature sensor is the fact that its fiber optic temperature measurements are absolute, and it has the fastest response compared to other options. The highest return speed is perfect in the cases where temperature changes are fast and extreme.

This report is a detailed and comprehensive analysis for global FBG Temperature Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market

share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global FBG Temperature Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global FBG Temperature Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global FBG Temperature Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global FBG Temperature Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for FBG Temperature Sensors
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global FBG Temperature Sensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Micron Optics, OptaSense(QinetiQ), Opsens Inc, Halliburton, Proximion, FISO Technologies, ITF Technologies Inc, Omnisens SA, Epsilon Optics, LIOS Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

FBG Temperature Sensors market is split by Type and by Application. For the period

2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Distributed Sensing

Fiber Optic Point Sensing

Market segment by Application

Power Industry

Transportation Industry

Oil& Gas Industry

Casting Industries

Other

Major players covered

Micron Optics

OptaSense(QinetiQ)

Opsens Inc

Halliburton

Proximion

FISO Technologies

ITF Technologies Inc

Omnisens SA

Epsilon Optics

LIOS Technology

Wuhan Ligong Guangke

Bandweaver

Boomdts

Sensornet

Schlumberger

Yokogawa Electric Corporation

Luna Innovations

Optromix

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 FBG Temperature Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of FBG Temperature Sensors, with price, sales quantity, revenue, and global market share of FBG Temperature Sensors from

2020 to 2025.

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

Chapter 4, the FBG Temperature Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and FBG Temperature Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 FBG Temperature Sensors.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global FBG Temperature Sensors Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Distributed Sensing

1.3.3 Fiber Optic Point Sensing

1.4 Market Analysis by Application

1.4.1 Overview: Global FBG Temperature Sensors Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Power Industry

1.4.3 Transportation Industry

1.4.4 Oil& Gas Industry

1.4.5 Casting Industries

1.4.6 Other

1.5 Global FBG Temperature Sensors Market Size & Forecast

1.5.1 Global FBG Temperature Sensors Consumption Value (2020 & 2024 & 2031)

1.5.2 Global FBG Temperature Sensors Sales Quantity (2020-2031)

1.5.3 Global FBG Temperature Sensors Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Micron Optics

2.1.1 Micron Optics Details

2.1.2 Micron Optics Major Business

2.1.3 Micron Optics FBG Temperature Sensors Product and Services

2.1.4 Micron Optics FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Micron Optics Recent Developments/Updates

2.2 OptaSense(QinetiQ)

2.2.1 OptaSense(QinetiQ) Details

2.2.2 OptaSense(QinetiQ) Major Business

2.2.3 OptaSense(QinetiQ) FBG Temperature Sensors Product and Services

2.2.4 OptaSense(QinetiQ) FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 OptaSense(QinetiQ) Recent Developments/Updates

2.3 Opsens Inc

2.3.1 Opsens Inc Details

2.3.2 Opsens Inc Major Business

2.3.3 Opsens Inc FBG Temperature Sensors Product and Services

2.3.4 Opsens Inc FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 Opsens Inc Recent Developments/Updates

2.4 Halliburton

2.4.1 Halliburton Details

2.4.2 Halliburton Major Business

2.4.3 Halliburton FBG Temperature Sensors Product and Services

2.4.4 Halliburton FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 Halliburton Recent Developments/Updates

2.5 Proximion

2.5.1 Proximion Details

2.5.2 Proximion Major Business

2.5.3 Proximion FBG Temperature Sensors Product and Services

2.5.4 Proximion FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 Proximion Recent Developments/Updates

2.6 FISO Technologies

2.6.1 FISO Technologies Details

2.6.2 FISO Technologies Major Business

2.6.3 FISO Technologies FBG Temperature Sensors Product and Services

2.6.4 FISO Technologies FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 FISO Technologies Recent Developments/Updates

2.7 ITF Technologies Inc

2.7.1 ITF Technologies Inc Details

2.7.2 ITF Technologies Inc Major Business

2.7.3 ITF Technologies Inc FBG Temperature Sensors Product and Services

2.7.4 ITF Technologies Inc FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 ITF Technologies Inc Recent Developments/Updates

2.8 Omnisens SA

2.8.1 Omnisens SA Details

2.8.2 Omnisens SA Major Business

- 2.8.3 Omnisens SA FBG Temperature Sensors Product and Services
- 2.8.4 Omnisens SA FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 Omnisens SA Recent Developments/Updates
- 2.9 Epsilon Optics
 - 2.9.1 Epsilon Optics Details
 - 2.9.2 Epsilon Optics Major Business
 - 2.9.3 Epsilon Optics FBG Temperature Sensors Product and Services
 - 2.9.4 Epsilon Optics FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.9.5 Epsilon Optics Recent Developments/Updates
- 2.10 LIOS Technology
 - 2.10.1 LIOS Technology Details
 - 2.10.2 LIOS Technology Major Business
 - 2.10.3 LIOS Technology FBG Temperature Sensors Product and Services
 - 2.10.4 LIOS Technology FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.10.5 LIOS Technology Recent Developments/Updates
- 2.11 Wuhan Ligong Guangke
 - 2.11.1 Wuhan Ligong Guangke Details
 - 2.11.2 Wuhan Ligong Guangke Major Business
 - 2.11.3 Wuhan Ligong Guangke FBG Temperature Sensors Product and Services
 - 2.11.4 Wuhan Ligong Guangke FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.11.5 Wuhan Ligong Guangke Recent Developments/Updates
- 2.12 Bandweaver
 - 2.12.1 Bandweaver Details
 - 2.12.2 Bandweaver Major Business
 - 2.12.3 Bandweaver FBG Temperature Sensors Product and Services
 - 2.12.4 Bandweaver FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.12.5 Bandweaver Recent Developments/Updates
- 2.13 Boomdts
 - 2.13.1 Boomdts Details
 - 2.13.2 Boomdts Major Business
 - 2.13.3 Boomdts FBG Temperature Sensors Product and Services
 - 2.13.4 Boomdts FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.13.5 Boomdts Recent Developments/Updates

2.14 Sensornet

2.14.1 Sensornet Details

2.14.2 Sensornet Major Business

2.14.3 Sensornet FBG Temperature Sensors Product and Services

2.14.4 Sensornet FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.14.5 Sensornet Recent Developments/Updates

2.15 Schlumberger

2.15.1 Schlumberger Details

2.15.2 Schlumberger Major Business

2.15.3 Schlumberger FBG Temperature Sensors Product and Services

2.15.4 Schlumberger FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.15.5 Schlumberger Recent Developments/Updates

2.16 Yokogawa Electric Corporation

2.16.1 Yokogawa Electric Corporation Details

2.16.2 Yokogawa Electric Corporation Major Business

2.16.3 Yokogawa Electric Corporation FBG Temperature Sensors Product and Services

2.16.4 Yokogawa Electric Corporation FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.16.5 Yokogawa Electric Corporation Recent Developments/Updates

2.17 Luna Innovations

2.17.1 Luna Innovations Details

2.17.2 Luna Innovations Major Business

2.17.3 Luna Innovations FBG Temperature Sensors Product and Services

2.17.4 Luna Innovations FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.17.5 Luna Innovations Recent Developments/Updates

2.18 Optromix

2.18.1 Optromix Details

2.18.2 Optromix Major Business

2.18.3 Optromix FBG Temperature Sensors Product and Services

2.18.4 Optromix FBG Temperature Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.18.5 Optromix Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: FBG TEMPERATURE SENSORS BY MANUFACTURER

- 3.1 Global FBG Temperature Sensors Sales Quantity by Manufacturer (2020-2025)
- 3.2 Global FBG Temperature Sensors Revenue by Manufacturer (2020-2025)
- 3.3 Global FBG Temperature Sensors Average Price by Manufacturer (2020-2025)
- 3.4 Market Share Analysis (2024)
 - 3.4.1 Producer Shipments of FBG Temperature Sensors by Manufacturer Revenue (\$MM) and Market Share (%): 2024
 - 3.4.2 Top 3 FBG Temperature Sensors Manufacturer Market Share in 2024
 - 3.4.3 Top 6 FBG Temperature Sensors Manufacturer Market Share in 2024
- 3.5 FBG Temperature Sensors Market: Overall Company Footprint Analysis
 - 3.5.1 FBG Temperature Sensors Market: Region Footprint
 - 3.5.2 FBG Temperature Sensors Market: Company Product Type Footprint
 - 3.5.3 FBG Temperature Sensors Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global FBG Temperature Sensors Market Size by Region
 - 4.1.1 Global FBG Temperature Sensors Sales Quantity by Region (2020-2031)
 - 4.1.2 Global FBG Temperature Sensors Consumption Value by Region (2020-2031)
 - 4.1.3 Global FBG Temperature Sensors Average Price by Region (2020-2031)
- 4.2 North America FBG Temperature Sensors Consumption Value (2020-2031)
- 4.3 Europe FBG Temperature Sensors Consumption Value (2020-2031)
- 4.4 Asia-Pacific FBG Temperature Sensors Consumption Value (2020-2031)
- 4.5 South America FBG Temperature Sensors Consumption Value (2020-2031)
- 4.6 Middle East & Africa FBG Temperature Sensors Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

- 5.1 Global FBG Temperature Sensors Sales Quantity by Type (2020-2031)
- 5.2 Global FBG Temperature Sensors Consumption Value by Type (2020-2031)
- 5.3 Global FBG Temperature Sensors Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global FBG Temperature Sensors Sales Quantity by Application (2020-2031)
- 6.2 Global FBG Temperature Sensors Consumption Value by Application (2020-2031)
- 6.3 Global FBG Temperature Sensors Average Price by Application (2020-2031)

7 NORTH AMERICA

7.1 North America FBG Temperature Sensors Sales Quantity by Type (2020-2031)

7.2 North America FBG Temperature Sensors Sales Quantity by Application (2020-2031)

7.3 North America FBG Temperature Sensors Market Size by Country

7.3.1 North America FBG Temperature Sensors Sales Quantity by Country (2020-2031)

7.3.2 North America FBG Temperature Sensors Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

8.1 Europe FBG Temperature Sensors Sales Quantity by Type (2020-2031)

8.2 Europe FBG Temperature Sensors Sales Quantity by Application (2020-2031)

8.3 Europe FBG Temperature Sensors Market Size by Country

8.3.1 Europe FBG Temperature Sensors Sales Quantity by Country (2020-2031)

8.3.2 Europe FBG Temperature Sensors Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

9.1 Asia-Pacific FBG Temperature Sensors Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific FBG Temperature Sensors Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific FBG Temperature Sensors Market Size by Region

9.3.1 Asia-Pacific FBG Temperature Sensors Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific FBG Temperature Sensors Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

- 9.3.6 India Market Size and Forecast (2020-2031)
- 9.3.7 Southeast Asia Market Size and Forecast (2020-2031)
- 9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

- 10.1 South America FBG Temperature Sensors Sales Quantity by Type (2020-2031)
- 10.2 South America FBG Temperature Sensors Sales Quantity by Application (2020-2031)
- 10.3 South America FBG Temperature Sensors Market Size by Country
 - 10.3.1 South America FBG Temperature Sensors Sales Quantity by Country (2020-2031)
 - 10.3.2 South America FBG Temperature Sensors Consumption Value by Country (2020-2031)
 - 10.3.3 Brazil Market Size and Forecast (2020-2031)
 - 10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa FBG Temperature Sensors Sales Quantity by Type (2020-2031)
- 11.2 Middle East & Africa FBG Temperature Sensors Sales Quantity by Application (2020-2031)
- 11.3 Middle East & Africa FBG Temperature Sensors Market Size by Country
 - 11.3.1 Middle East & Africa FBG Temperature Sensors Sales Quantity by Country (2020-2031)
 - 11.3.2 Middle East & Africa FBG Temperature Sensors Consumption Value by Country (2020-2031)
 - 11.3.3 Turkey Market Size and Forecast (2020-2031)
 - 11.3.4 Egypt Market Size and Forecast (2020-2031)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)
 - 11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

- 12.1 FBG Temperature Sensors Market Drivers
- 12.2 FBG Temperature Sensors Market Restraints
- 12.3 FBG Temperature Sensors Trends Analysis
- 12.4 Porters Five Forces Analysis

- 12.4.1 Threat of New Entrants
- 12.4.2 Bargaining Power of Suppliers
- 12.4.3 Bargaining Power of Buyers
- 12.4.4 Threat of Substitutes
- 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of FBG Temperature Sensors and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of FBG Temperature Sensors
- 13.3 FBG Temperature Sensors Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 FBG Temperature Sensors Typical Distributors
- 14.3 FBG Temperature Sensors Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global FBG Temperature Sensors Consumption Value by Type, (USD Million), 2020 & 2024 & 2031
- Table 2. Global FBG Temperature Sensors Consumption Value by Application, (USD Million), 2020 & 2024 & 2031
- Table 3. Micron Optics Basic Information, Manufacturing Base and Competitors
- Table 4. Micron Optics Major Business
- Table 5. Micron Optics FBG Temperature Sensors Product and Services
- Table 6. Micron Optics FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 7. Micron Optics Recent Developments/Updates
- Table 8. OptaSense(QinetiQ) Basic Information, Manufacturing Base and Competitors
- Table 9. OptaSense(QinetiQ) Major Business
- Table 10. OptaSense(QinetiQ) FBG Temperature Sensors Product and Services
- Table 11. OptaSense(QinetiQ) FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 12. OptaSense(QinetiQ) Recent Developments/Updates
- Table 13. Opsens Inc Basic Information, Manufacturing Base and Competitors
- Table 14. Opsens Inc Major Business
- Table 15. Opsens Inc FBG Temperature Sensors Product and Services
- Table 16. Opsens Inc FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 17. Opsens Inc Recent Developments/Updates
- Table 18. Halliburton Basic Information, Manufacturing Base and Competitors
- Table 19. Halliburton Major Business
- Table 20. Halliburton FBG Temperature Sensors Product and Services
- Table 21. Halliburton FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 22. Halliburton Recent Developments/Updates
- Table 23. Proximion Basic Information, Manufacturing Base and Competitors
- Table 24. Proximion Major Business
- Table 25. Proximion FBG Temperature Sensors Product and Services
- Table 26. Proximion FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 27. Proximion Recent Developments/Updates

Table 28. FISO Technologies Basic Information, Manufacturing Base and Competitors

Table 29. FISO Technologies Major Business

Table 30. FISO Technologies FBG Temperature Sensors Product and Services

Table 31. FISO Technologies FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. FISO Technologies Recent Developments/Updates

Table 33. ITF Technologies Inc Basic Information, Manufacturing Base and Competitors

Table 34. ITF Technologies Inc Major Business

Table 35. ITF Technologies Inc FBG Temperature Sensors Product and Services

Table 36. ITF Technologies Inc FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. ITF Technologies Inc Recent Developments/Updates

Table 38. Omnisens SA Basic Information, Manufacturing Base and Competitors

Table 39. Omnisens SA Major Business

Table 40. Omnisens SA FBG Temperature Sensors Product and Services

Table 41. Omnisens SA FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Omnisens SA Recent Developments/Updates

Table 43. Epsilon Optics Basic Information, Manufacturing Base and Competitors

Table 44. Epsilon Optics Major Business

Table 45. Epsilon Optics FBG Temperature Sensors Product and Services

Table 46. Epsilon Optics FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Epsilon Optics Recent Developments/Updates

Table 48. LIOS Technology Basic Information, Manufacturing Base and Competitors

Table 49. LIOS Technology Major Business

Table 50. LIOS Technology FBG Temperature Sensors Product and Services

Table 51. LIOS Technology FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. LIOS Technology Recent Developments/Updates

Table 53. Wuhan Ligong Guangke Basic Information, Manufacturing Base and Competitors

Table 54. Wuhan Ligong Guangke Major Business

Table 55. Wuhan Ligong Guangke FBG Temperature Sensors Product and Services

Table 56. Wuhan Ligong Guangke FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share

(2020-2025)

Table 57. Wuhan Ligong Guangke Recent Developments/Updates

Table 58. Bandweaver Basic Information, Manufacturing Base and Competitors

Table 59. Bandweaver Major Business

Table 60. Bandweaver FBG Temperature Sensors Product and Services

Table 61. Bandweaver FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. Bandweaver Recent Developments/Updates

Table 63. Boomdts Basic Information, Manufacturing Base and Competitors

Table 64. Boomdts Major Business

Table 65. Boomdts FBG Temperature Sensors Product and Services

Table 66. Boomdts FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. Boomdts Recent Developments/Updates

Table 68. Sensornet Basic Information, Manufacturing Base and Competitors

Table 69. Sensornet Major Business

Table 70. Sensornet FBG Temperature Sensors Product and Services

Table 71. Sensornet FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 72. Sensornet Recent Developments/Updates

Table 73. Schlumberger Basic Information, Manufacturing Base and Competitors

Table 74. Schlumberger Major Business

Table 75. Schlumberger FBG Temperature Sensors Product and Services

Table 76. Schlumberger FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 77. Schlumberger Recent Developments/Updates

Table 78. Yokogawa Electric Corporation Basic Information, Manufacturing Base and Competitors

Table 79. Yokogawa Electric Corporation Major Business

Table 80. Yokogawa Electric Corporation FBG Temperature Sensors Product and Services

Table 81. Yokogawa Electric Corporation FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 82. Yokogawa Electric Corporation Recent Developments/Updates

Table 83. Luna Innovations Basic Information, Manufacturing Base and Competitors

Table 84. Luna Innovations Major Business

Table 85. Luna Innovations FBG Temperature Sensors Product and Services

Table 86. Luna Innovations FBG Temperature Sensors Sales Quantity (K Units),

Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 87. Luna Innovations Recent Developments/Updates

Table 88. Optromix Basic Information, Manufacturing Base and Competitors

Table 89. Optromix Major Business

Table 90. Optromix FBG Temperature Sensors Product and Services

Table 91. Optromix FBG Temperature Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 92. Optromix Recent Developments/Updates

Table 93. Global FBG Temperature Sensors Sales Quantity by Manufacturer (2020-2025) & (K Units)

Table 94. Global FBG Temperature Sensors Revenue by Manufacturer (2020-2025) & (USD Million)

Table 95. Global FBG Temperature Sensors Average Price by Manufacturer (2020-2025) & (US\$/Unit)

Table 96. Market Position of Manufacturers in FBG Temperature Sensors, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 97. Head Office and FBG Temperature Sensors Production Site of Key Manufacturer

Table 98. FBG Temperature Sensors Market: Company Product Type Footprint

Table 99. FBG Temperature Sensors Market: Company Product Application Footprint

Table 100. FBG Temperature Sensors New Market Entrants and Barriers to Market Entry

Table 101. FBG Temperature Sensors Mergers, Acquisition, Agreements, and Collaborations

Table 102. Global FBG Temperature Sensors Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 103. Global FBG Temperature Sensors Sales Quantity by Region (2020-2025) & (K Units)

Table 104. Global FBG Temperature Sensors Sales Quantity by Region (2026-2031) & (K Units)

Table 105. Global FBG Temperature Sensors Consumption Value by Region (2020-2025) & (USD Million)

Table 106. Global FBG Temperature Sensors Consumption Value by Region (2026-2031) & (USD Million)

Table 107. Global FBG Temperature Sensors Average Price by Region (2020-2025) & (US\$/Unit)

Table 108. Global FBG Temperature Sensors Average Price by Region (2026-2031) & (US\$/Unit)

Table 109. Global FBG Temperature Sensors Sales Quantity by Type (2020-2025) & (K Units)

Table 110. Global FBG Temperature Sensors Sales Quantity by Type (2026-2031) & (K Units)

Table 111. Global FBG Temperature Sensors Consumption Value by Type (2020-2025) & (USD Million)

Table 112. Global FBG Temperature Sensors Consumption Value by Type (2026-2031) & (USD Million)

Table 113. Global FBG Temperature Sensors Average Price by Type (2020-2025) & (US\$/Unit)

Table 114. Global FBG Temperature Sensors Average Price by Type (2026-2031) & (US\$/Unit)

Table 115. Global FBG Temperature Sensors Sales Quantity by Application (2020-2025) & (K Units)

Table 116. Global FBG Temperature Sensors Sales Quantity by Application (2026-2031) & (K Units)

Table 117. Global FBG Temperature Sensors Consumption Value by Application (2020-2025) & (USD Million)

Table 118. Global FBG Temperature Sensors Consumption Value by Application (2026-2031) & (USD Million)

Table 119. Global FBG Temperature Sensors Average Price by Application (2020-2025) & (US\$/Unit)

Table 120. Global FBG Temperature Sensors Average Price by Application (2026-2031) & (US\$/Unit)

Table 121. North America FBG Temperature Sensors Sales Quantity by Type (2020-2025) & (K Units)

Table 122. North America FBG Temperature Sensors Sales Quantity by Type (2026-2031) & (K Units)

Table 123. North America FBG Temperature Sensors Sales Quantity by Application (2020-2025) & (K Units)

Table 124. North America FBG Temperature Sensors Sales Quantity by Application (2026-2031) & (K Units)

Table 125. North America FBG Temperature Sensors Sales Quantity by Country (2020-2025) & (K Units)

Table 126. North America FBG Temperature Sensors Sales Quantity by Country (2026-2031) & (K Units)

Table 127. North America FBG Temperature Sensors Consumption Value by Country (2020-2025) & (USD Million)

Table 128. North America FBG Temperature Sensors Consumption Value by Country

(2026-2031) & (USD Million)

Table 129. Europe FBG Temperature Sensors Sales Quantity by Type (2020-2025) & (K Units)

Table 130. Europe FBG Temperature Sensors Sales Quantity by Type (2026-2031) & (K Units)

Table 131. Europe FBG Temperature Sensors Sales Quantity by Application (2020-2025) & (K Units)

Table 132. Europe FBG Temperature Sensors Sales Quantity by Application (2026-2031) & (K Units)

Table 133. Europe FBG Temperature Sensors Sales Quantity by Country (2020-2025) & (K Units)

Table 134. Europe FBG Temperature Sensors Sales Quantity by Country (2026-2031) & (K Units)

Table 135. Europe FBG Temperature Sensors Consumption Value by Country (2020-2025) & (USD Million)

Table 136. Europe FBG Temperature Sensors Consumption Value by Country (2026-2031) & (USD Million)

Table 137. Asia-Pacific FBG Temperature Sensors Sales Quantity by Type (2020-2025) & (K Units)

Table 138. Asia-Pacific FBG Temperature Sensors Sales Quantity by Type (2026-2031) & (K Units)

Table 139. Asia-Pacific FBG Temperature Sensors Sales Quantity by Application (2020-2025) & (K Units)

Table 140. Asia-Pacific FBG Temperature Sensors Sales Quantity by Application (2026-2031) & (K Units)

Table 141. Asia-Pacific FBG Temperature Sensors Sales Quantity by Region (2020-2025) & (K Units)

Table 142. Asia-Pacific FBG Temperature Sensors Sales Quantity by Region (2026-2031) & (K Units)

Table 143. Asia-Pacific FBG Temperature Sensors Consumption Value by Region (2020-2025) & (USD Million)

Table 144. Asia-Pacific FBG Temperature Sensors Consumption Value by Region (2026-2031) & (USD Million)

Table 145. South America FBG Temperature Sensors Sales Quantity by Type (2020-2025) & (K Units)

Table 146. South America FBG Temperature Sensors Sales Quantity by Type (2026-2031) & (K Units)

Table 147. South America FBG Temperature Sensors Sales Quantity by Application (2020-2025) & (K Units)

Table 148. South America FBG Temperature Sensors Sales Quantity by Application (2026-2031) & (K Units)

Table 149. South America FBG Temperature Sensors Sales Quantity by Country (2020-2025) & (K Units)

Table 150. South America FBG Temperature Sensors Sales Quantity by Country (2026-2031) & (K Units)

Table 151. South America FBG Temperature Sensors Consumption Value by Country (2020-2025) & (USD Million)

Table 152. South America FBG Temperature Sensors Consumption Value by Country (2026-2031) & (USD Million)

Table 153. Middle East & Africa FBG Temperature Sensors Sales Quantity by Type (2020-2025) & (K Units)

Table 154. Middle East & Africa FBG Temperature Sensors Sales Quantity by Type (2026-2031) & (K Units)

Table 155. Middle East & Africa FBG Temperature Sensors Sales Quantity by Application (2020-2025) & (K Units)

Table 156. Middle East & Africa FBG Temperature Sensors Sales Quantity by Application (2026-2031) & (K Units)

Table 157. Middle East & Africa FBG Temperature Sensors Sales Quantity by Country (2020-2025) & (K Units)

Table 158. Middle East & Africa FBG Temperature Sensors Sales Quantity by Country (2026-2031) & (K Units)

Table 159. Middle East & Africa FBG Temperature Sensors Consumption Value by Country (2020-2025) & (USD Million)

Table 160. Middle East & Africa FBG Temperature Sensors Consumption Value by Country (2026-2031) & (USD Million)

Table 161. FBG Temperature Sensors Raw Material

Table 162. Key Manufacturers of FBG Temperature Sensors Raw Materials

Table 163. FBG Temperature Sensors Typical Distributors

Table 164. FBG Temperature Sensors Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. FBG Temperature Sensors Picture
- Figure 2. Global FBG Temperature Sensors Revenue by Type, (USD Million), 2020 & 2024 & 2031
- Figure 3. Global FBG Temperature Sensors Revenue Market Share by Type in 2024
- Figure 4. Distributed Sensing Examples
- Figure 5. Fiber Optic Point Sensing Examples
- Figure 6. Global FBG Temperature Sensors Consumption Value by Application, (USD Million), 2020 & 2024 & 2031
- Figure 7. Global FBG Temperature Sensors Revenue Market Share by Application in 2024
- Figure 8. Power Industry Examples
- Figure 9. Transportation Industry Examples
- Figure 10. Oil& Gas Industry Examples
- Figure 11. Casting Industries Examples
- Figure 12. Other Examples
- Figure 13. Global FBG Temperature Sensors Consumption Value, (USD Million): 2020 & 2024 & 2031
- Figure 14. Global FBG Temperature Sensors Consumption Value and Forecast (2020-2031) & (USD Million)
- Figure 15. Global FBG Temperature Sensors Sales Quantity (2020-2031) & (K Units)
- Figure 16. Global FBG Temperature Sensors Price (2020-2031) & (US\$/Unit)
- Figure 17. Global FBG Temperature Sensors Sales Quantity Market Share by Manufacturer in 2024
- Figure 18. Global FBG Temperature Sensors Revenue Market Share by Manufacturer in 2024
- Figure 19. Producer Shipments of FBG Temperature Sensors by Manufacturer Sales (\$MM) and Market Share (%): 2024
- Figure 20. Top 3 FBG Temperature Sensors Manufacturer (Revenue) Market Share in 2024
- Figure 21. Top 6 FBG Temperature Sensors Manufacturer (Revenue) Market Share in 2024
- Figure 22. Global FBG Temperature Sensors Sales Quantity Market Share by Region (2020-2031)
- Figure 23. Global FBG Temperature Sensors Consumption Value Market Share by Region (2020-2031)

Figure 24. North America FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 25. Europe FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 26. Asia-Pacific FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 27. South America FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 28. Middle East & Africa FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 29. Global FBG Temperature Sensors Sales Quantity Market Share by Type (2020-2031)

Figure 30. Global FBG Temperature Sensors Consumption Value Market Share by Type (2020-2031)

Figure 31. Global FBG Temperature Sensors Average Price by Type (2020-2031) & (US\$/Unit)

Figure 32. Global FBG Temperature Sensors Sales Quantity Market Share by Application (2020-2031)

Figure 33. Global FBG Temperature Sensors Revenue Market Share by Application (2020-2031)

Figure 34. Global FBG Temperature Sensors Average Price by Application (2020-2031) & (US\$/Unit)

Figure 35. North America FBG Temperature Sensors Sales Quantity Market Share by Type (2020-2031)

Figure 36. North America FBG Temperature Sensors Sales Quantity Market Share by Application (2020-2031)

Figure 37. North America FBG Temperature Sensors Sales Quantity Market Share by Country (2020-2031)

Figure 38. North America FBG Temperature Sensors Consumption Value Market Share by Country (2020-2031)

Figure 39. United States FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 40. Canada FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 41. Mexico FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 42. Europe FBG Temperature Sensors Sales Quantity Market Share by Type (2020-2031)

Figure 43. Europe FBG Temperature Sensors Sales Quantity Market Share by

Application (2020-2031)

Figure 44. Europe FBG Temperature Sensors Sales Quantity Market Share by Country (2020-2031)

Figure 45. Europe FBG Temperature Sensors Consumption Value Market Share by Country (2020-2031)

Figure 46. Germany FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 47. France FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 48. United Kingdom FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 49. Russia FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 50. Italy FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 51. Asia-Pacific FBG Temperature Sensors Sales Quantity Market Share by Type (2020-2031)

Figure 52. Asia-Pacific FBG Temperature Sensors Sales Quantity Market Share by Application (2020-2031)

Figure 53. Asia-Pacific FBG Temperature Sensors Sales Quantity Market Share by Region (2020-2031)

Figure 54. Asia-Pacific FBG Temperature Sensors Consumption Value Market Share by Region (2020-2031)

Figure 55. China FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 56. Japan FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 57. South Korea FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 58. India FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 59. Southeast Asia FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 60. Australia FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 61. South America FBG Temperature Sensors Sales Quantity Market Share by Type (2020-2031)

Figure 62. South America FBG Temperature Sensors Sales Quantity Market Share by Application (2020-2031)

Figure 63. South America FBG Temperature Sensors Sales Quantity Market Share by Country (2020-2031)

Figure 64. South America FBG Temperature Sensors Consumption Value Market Share by Country (2020-2031)

Figure 65. Brazil FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 66. Argentina FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 67. Middle East & Africa FBG Temperature Sensors Sales Quantity Market Share by Type (2020-2031)

Figure 68. Middle East & Africa FBG Temperature Sensors Sales Quantity Market Share by Application (2020-2031)

Figure 69. Middle East & Africa FBG Temperature Sensors Sales Quantity Market Share by Country (2020-2031)

Figure 70. Middle East & Africa FBG Temperature Sensors Consumption Value Market Share by Country (2020-2031)

Figure 71. Turkey FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 72. Egypt FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 73. Saudi Arabia FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 74. South Africa FBG Temperature Sensors Consumption Value (2020-2031) & (USD Million)

Figure 75. FBG Temperature Sensors Market Drivers

Figure 76. FBG Temperature Sensors Market Restraints

Figure 77. FBG Temperature Sensors Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of FBG Temperature Sensors in 2024

Figure 80. Manufacturing Process Analysis of FBG Temperature Sensors

Figure 81. FBG Temperature Sensors Industrial Chain

Figure 82. Sales Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

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