

Global Fiber Optic Dissolved Oxygen Detection Probe Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Fiber Optic Dissolved Oxygen Detection Probe market size was valued at US\$ 55.56 million in 2025 and is forecast to a readjusted size of US\$ 123 million by 2032 with a CAGR of 12.2% during review period.

Fiber optic dissolved oxygen (DOO) detectors are water quality sensors based on the principle of optical fluorescence quenching. They transmit excitation light to a sensing membrane via optical fiber and collect the attenuation or phase change of the fluorescence signal caused by dissolved oxygen, thus achieving accurate measurement of dissolved oxygen concentration in water. These detectors do not consume oxygen, require no electrolyte or oxygen-permeable membrane, and feature fast response, low maintenance, and high long-term stability. They are suitable for applications requiring continuous and reliable dissolved oxygen data, such as water environment monitoring, water treatment process control, aquaculture, and scientific research. Sales in 2025 reached 156,000 units, with an average price of \$305 per unit. Total production capacity was 200,000 units, with a gross profit margin of 42%.

This report is a detailed and comprehensive analysis for global Fiber Optic Dissolved Oxygen Detection Probe 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 Fiber Optic Dissolved Oxygen Detection Probe market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Fiber Optic Dissolved Oxygen Detection Probe market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Fiber Optic Dissolved Oxygen Detection Probe market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Fiber Optic Dissolved Oxygen Detection Probe market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 Fiber Optic Dissolved Oxygen Detection Probe
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Fiber Optic Dissolved Oxygen Detection Probe 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 PreSens Precision Sensing, Ocean Insight, PyroScience GmbH, Loligo® Systems, Optical Sensors Division, ALICAT Scientific, Barben Analytical, World Precision Instruments, IDIL Fibres Optiques, TecSense GmbH, etc.

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

Market Segmentation

Fiber Optic Dissolved Oxygen Detection Probe market is split by Type and by Application. For the period 2021-2032, 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

- Fluorescence Quenching

- Phosphorescence Quenching

Market segment by Measuring Medium

- Gas Oxygen Sensor

- Liquid Oxygen Sensor

Market segment by Structure & Packaging

- Integrated Fiber-optic DO Probe

- Remote Fiber-optic DO Probe

Market segment by Application

- Water Environment and Aquatic Products

- Industry and Manufacturing

- Environment and Energy

- Others

Major players covered

- PreSens Precision Sensing

Ocean Insight

PyroScience GmbH

Loligo® Systems

Optical Sensors Division

ALICAT Scientific

Barben Analytical

World Precision Instruments

IDIL Fibres Optiques

TecSense GmbH

Zealquest Scientific Technology Co., Ltd.

PreSens

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 Dissolved Oxygen Detection Probe product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fiber Optic Dissolved Oxygen Detection Probe, with price, sales quantity, revenue, and global market share of Fiber Optic

Dissolved Oxygen Detection Probe from 2021 to 2026.

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

Chapter 4, the Fiber Optic Dissolved Oxygen Detection Probe breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Fiber Optic Dissolved Oxygen Detection Probe market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Dissolved Oxygen Detection Probe.

Chapter 14 and 15, to describe Fiber Optic Dissolved Oxygen Detection Probe sales channel, distributors, customers, research findings and conclusion.

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