

Global Fiber Optic Dissolved Oxygen Detection Probe Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fiber Optic Dissolved Oxygen Detection Probe market size is expected to reach \$ 123 million by 2032, rising at a market growth of 12.2% CAGR during the forecast period (2026-2032).

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 studies the global Fiber Optic Dissolved Oxygen Detection Probe production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fiber Optic Dissolved Oxygen Detection Probe 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 Optic Dissolved Oxygen Detection Probe that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fiber Optic Dissolved Oxygen Detection Probe total production and demand, 2021-2032, (K Units)

Global Fiber Optic Dissolved Oxygen Detection Probe total production value, 2021-2032, (USD Million)

Global Fiber Optic Dissolved Oxygen Detection Probe production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Fiber Optic Dissolved Oxygen Detection Probe consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Fiber Optic Dissolved Oxygen Detection Probe domestic production, consumption, key domestic manufacturers and share

Global Fiber Optic Dissolved Oxygen Detection Probe production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Fiber Optic Dissolved Oxygen Detection Probe production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Fiber Optic Dissolved Oxygen Detection Probe production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Fiber Optic Dissolved Oxygen Detection Probe 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 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.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World Fiber Optic Dissolved Oxygen Detection Probe 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 Optic Dissolved Oxygen Detection Probe Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fiber Optic Dissolved Oxygen Detection Probe Market, Segmentation by Type:

Fluorescence Quenching

Phosphorescence Quenching

Global Fiber Optic Dissolved Oxygen Detection Probe Market, Segmentation by Measuring Medium:

Gas Oxygen Sensor

Liquid Oxygen Sensor

Global Fiber Optic Dissolved Oxygen Detection Probe Market, Segmentation by Structure & Packaging:

Integrated Fiber-optic DO Probe

Remote Fiber-optic DO Probe

Global Fiber Optic Dissolved Oxygen Detection Probe Market, Segmentation by Application:

Water Environment and Aquatic Products

Industry and Manufacturing

Environment and Energy

Others

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Fiber Optic Dissolved Oxygen Detection Probe market?
2. What is the demand of the global Fiber Optic Dissolved Oxygen Detection Probe market?
3. What is the year over year growth of the global Fiber Optic Dissolved Oxygen Detection Probe market?
4. What is the production and production value of the global Fiber Optic Dissolved Oxygen Detection Probe market?
5. Who are the key producers in the global Fiber Optic Dissolved Oxygen Detection Probe market?
6. What are the growth factors driving the market demand?

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