

Global Single-use Dissolved Oxygen Sensor 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 Single-use Dissolved Oxygen Sensor market size was valued at US\$ 238 million in 2024 and is forecast to a readjusted size of USD 380 million by 2031 with a CAGR of 7.0% during review period.

A single-use dissolved oxygen (DO) sensor is a disposable device designed to measure the concentration of dissolved oxygen in liquids, often used in biopharmaceutical and fermentation processes. These sensors typically utilize optical or electrochemical technology to provide real-time, accurate oxygen readings, crucial for maintaining optimal conditions in bioreactors and other closed systems.

Single-use dissolved oxygen sensors are widely used in the biopharmaceutical industry, particularly in bioreactors, to monitor oxygen levels in real-time. Their main advantage lies in the disposable design, which eliminates the need for recalibration, cleaning, and sterilization, significantly reducing contamination risks. Sterility is crucial in biopharmaceutical production since even minor contamination can negatively impact cell culture or fermentation processes. By using single-use oxygen sensors, companies can simplify operations, save time and labor, and enhance overall production efficiency. These sensors are also cost-effective in environments where maintenance and sterilization processes can be complex and costly. However, their lifespan is limited, suitable only for specific batches and short-term operations, making them less ideal for long-term monitoring. Additionally, the per-unit cost is higher compared to reusable sensors, which may require careful consideration in cost-sensitive projects. Despite this, as demand for disposable technologies in the biopharmaceutical industry grows, the market for single-use sensors is expanding steadily. Overall, these sensors offer streamlined operations and efficient process control, especially in environments

requiring stringent sterility, making them a valuable tool for biopharmaceutical production with promising market potential.

This report is a detailed and comprehensive analysis for global Single-use Dissolved Oxygen Sensor 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 Single-use Dissolved Oxygen Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Single-use Dissolved Oxygen Sensor 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 Single-use Dissolved Oxygen Sensor 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 Single-use Dissolved Oxygen Sensor 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 Single-use Dissolved Oxygen Sensor
- 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 Single-use Dissolved Oxygen Sensor 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 Mettler Toledo, Hamilton, Emerson, Thermo Fisher Scientific, Broadley-James, Polestar Technologies, etc.

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

Market Segmentation

Single-use Dissolved Oxygen Sensor 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

Optical Type

Electrochemical Type

Market segment by Application

Chemical

Food and Beverages

Pharmaceutical

Others

Major players covered

Mettler Toledo

Hamilton

Emerson

Thermo Fisher Scientific

Broadley-James

Polestar Technologies

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 Single-use Dissolved Oxygen Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single-use Dissolved Oxygen Sensor, with price, sales quantity, revenue, and global market share of Single-use Dissolved Oxygen Sensor from 2020 to 2025.

Chapter 3, the Single-use Dissolved Oxygen Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Single-use Dissolved Oxygen Sensor 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 Single-use Dissolved Oxygen Sensor 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 Single-use Dissolved Oxygen Sensor.

Chapter 14 and 15, to describe Single-use Dissolved Oxygen Sensor sales channel, distributors, customers, research findings and conclusion.

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