

Single-use Bioprocessing Probes And Sensors Market Size, Share & Trends Analysis Report By Sensor Type (pH Sensor, Oxygen Sensor), By Workflow (Upstream, Downstream), By End Use, By Region, And Segment Forecasts, 2021 - 2028

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Abstracts

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Single-use Bioprocessing Probes And Sensors Market Growth & Trends

The global single-use bioprocessing probes and sensors market size is expected to reach USD 5.4 billion by 2028, according to a new report by Grand View Research, Inc. The market is expected to expand at a CAGR of 13.9% from 2021 to 2028. The biopharmaceutical industry is witnessing an increase in the use of single-use technology for the production of biologics, biosimilar, and other biopharmaceutical products. As the need to reduce manufacturing costs is increasing, manufacturers are adopting the implementation of single-use equipment in their production workflow, in turn, boosting revenue growth.

Rising demand for improved bioprocess monitoring devices is another factor driving the market for single-use probes and sensors. Growing biopharmaceutical sector demands advanced sensors to cope with the regulatory norms that require increasingly detailed and complex measurement of processes. Thus, the demand for improved sensors that offer better results is also increasing.

Expanding usage of disposable systems has resulted in lucrative growth for operating players. Key players are making focused efforts to boost their business presence. OEMs are collaborating with independent single-use suppliers to fill the technological

gap. Some key OEMs are integrating disposable sensors in their equipment used for various applications, thereby accelerating the adoption of products in this space.

Single-use Bioprocessing Probes And Sensors Market Report Highlights

Single-use pH and dissolved oxygen sensors are the most used disposable sensors in the bioprocessing industry. Products for pressure measurement have already become widely accepted and adopted

In 2020, the pH sensor segment accounted for the major revenue share as these sensors can be deployed in nearly all the biological processes

Single-use Dissolved Oxygen (DO) and pH sensors are being used in upstream applications, leading to the large revenue share of the segment

Increasing application of disposable bioreactors in upstream biopharmaceutical production has driven the use of sensors in this segment

In addition, the availability of various single-use systems for upstream bioprocessing further supplements segment growth

Biopharmaceutical manufacturers have emerged as the key end-user of this market

Increasing adoption of single-use technologies by CMOs is one of the key drivers for the growth of the biopharmaceutical manufacturer segment

Geographically, North America dominated the market in 2020 owing to the presence of biopharmaceutical clusters and proactiveness of operating end-users in adopting new technologies

Asia Pacific is expected to be the fastest-growing market over the forecast period, owing to the expanding biomanufacturing capabilities in Asian countries

The key players are engaged in collaboration with therapy developers to support their product development process

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