

# Global Free Bromine Sensor Market Growth 2026-2032

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## Abstracts

The global Free Bromine Sensor market size is predicted to grow from US\$ 19.56 million in 2025 to US\$ 26.75 million in 2032; it is expected to grow at a CAGR of 4.7% from 2026 to 2032.

A free bromine sensor is an analytical instrument specifically designed for the continuous, online, and real-time detection of free bromine concentration in liquids (typically water). The core demand stems from the mandatory requirements of industrial circulating water systems for the precise dosing and safe, efficient operation of bromine-based disinfectants. The goal is to precisely control the free bromine concentration to achieve optimal disinfection, prevent equipment corrosion and biofilm growth, and meet environmental regulations. Its upstream supply chain focuses on the precision manufacturing and specialty chemical industries of electrochemical sensor chips, specific ion-selective membranes, precious metal electrode materials, microfluidic substrates, and corrosion-resistant housings (such as PVDF and titanium alloys). The downstream supply chain directly serves water treatment departments and system integrators of end-user industrial applications. As a key process control point, it is embedded in automatic dosing control loops, with real-time data directly driving metering pump actions, generating compliance reports, and providing early warnings of microbial risks. In 2025, the production volume of free bromine sensors is estimated at approximately 10,000 units, with an average selling price of approximately US\$2,000 per unit, a gross profit margin of approximately 35%, and a single-line capacity of approximately 600 units per year.

The core market drivers for free bromine sensor can be summarized as follows: First, the fundamental driving force is the rigid global demand for water safety and public health. As countries increasingly stringent disinfection standards for drinking water, industrial wastewater, and recreational water (such as swimming pools and spas), real-time and accurate monitoring of free bromine concentrations via online or portable

sensors is necessary to ensure disinfection effectiveness and control the formation of disinfection byproducts. Second, the technological advantages of bromine-based disinfectants are replacing traditional chlorine disinfection. Bromine exhibits better disinfection effects at higher pH values, lower volatility at high temperatures, and less irritation to mucous membranes. The trend of technological substitution has directly driven the market demand for dedicated free bromine sensors. Furthermore, the demand for industrial process control and asset protection is an important incremental driver. In industries such as cooling water circulation, petrochemicals, and power, excessive or insufficient bromine residue can lead to equipment corrosion or microbial growth. Using high-precision free bromine sensors to achieve automated dosing control can significantly reduce operation and maintenance costs and ensure production safety. Finally, the continuous investment and upgrading of global water treatment infrastructure, especially in the rapid urbanization and industrialization process in the Asia-Pacific region, has created a long-term and stable incremental market space for free bromine sensors.

LP Information, Inc. (LPI) ' newest research report, the 'Free Bromine Sensor Industry Forecast' looks at past sales and reviews total world Free Bromine Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Free Bromine Sensor sales for 2026 through 2032. With Free Bromine Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Free Bromine Sensor industry.

This Insight Report provides a comprehensive analysis of the global Free Bromine Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Free Bromine Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Free Bromine Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Free Bromine Sensor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Free Bromine Sensor.

This report presents a comprehensive overview, market shares, and growth

opportunities of Free Bromine Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Immersion Type

Flow-through Type

Segmentation by Consumable:

Reagent-free Type

Reagent-required Type

Segmentation by Measurement Range:

Trace

Standard

High Concentration

Segmentation by Application:

Petrochemical

Power

Food

Commercial Facility

Other

This report also splits the market by region:

### Americas

United States

Canada

Mexico

Brazil

### APAC

China

Japan

Korea

Southeast Asia

India

Australia

### Europe

Germany

France

UK

Italy

Russia

### Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Endress+Hauser

ProMinent

Walchem

Kuntze Instruments

Pulse Instruments

DOSATRONIC GmbH

Jumo Italia Srl

Nanning Nobo Instrument Co., Ltd.

Jiangsu Youtuo Precision Technology Co., Ltd.

Bebur

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Free Bromine Sensor market?

What factors are driving Free Bromine Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Free Bromine Sensor market opportunities vary by end market size?

How does Free Bromine Sensor break out by Type, by Application?

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