

Global Free Bromine Sensor 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 Free Bromine Sensor market size was valued at US\$ 20.58 million in 2025 and is forecast to a readjusted size of US\$ 27.70 million by 2032 with a CAGR of 4.4% during review period.

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.

This report is a detailed and comprehensive analysis for global Free Bromine 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 Free Bromine Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Free Bromine Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Free Bromine Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Free Bromine Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (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 Free Bromine 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 Free Bromine 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 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, etc.

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

Market Segmentation

Free Bromine Sensor 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

Immersion Type

Flow-through Type

Market segment by Consumable

Reagent-free Type

Reagent-required Type

Market segment by Measurement Range

Trace

Standard

High Concentration

Market segment by Application

Petrochemical

Power

Food

Commercial Facility

Other

Major players covered

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

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 Free Bromine Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Free Bromine Sensor, with price, sales quantity, revenue, and global market share of Free Bromine Sensor from 2021 to 2026.

Chapter 3, the Free Bromine Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Free Bromine Sensor 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 Free Bromine Sensor 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 Free Bromine Sensor.

Chapter 14 and 15, to describe Free Bromine Sensor sales channel, distributors, customers, research findings and conclusion.

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