

Global pH Sensor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global pH Sensor market size was valued at USD 620.5 million in 2023 and is forecast to a readjusted size of USD 771.3 million by 2030 with a CAGR of 3.2% during review period.

The pH Sensor is a critical components of a pH measurement loop. A pH measurement loop is made up of three components, the pH sensor, which includes a measuring electrode, a reference electrode, and a temperature sensor; a preamplifier; and an analyser or transmitter. A pH measurement loop is essentially a battery where the positive terminal is the measuring electrode and the negative terminal is the reference electrode. The measuring electrode, which is sensitive to the hydrogen ion, develops a potential (voltage) directly related to the hydrogen ion concentration of the solution. The reference electrode provides a stable potential against which the measuring electrode can be compared.

Global PH Sensors key players include Endress+Hauser, Emerson, Yokogawa Electric Corporation, ABB, Honeywell, etc. Global top five manufacturers hold a share over 40%. USA is the largest market, with a share about 40%, followed by Europe and Japan, total have a share over 40 percent. In terms of product, Glass Type Sensor is the largest segment, with a share about 80%. And in terms of application, the largest application is Chemical Industry, followed by Water Treatment, Pharmaceutical Industry, Food and Beverages.

The Global Info Research report includes an overview of the development of the pH Sensor industry chain, the market status of Medical and Healthcare Sector (General Purpose pH Sensors, High-Performance pH Sensors), Paper Industry (General Purpose pH Sensors, High-Performance pH Sensors), and key enterprises in developed and

developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of pH Sensor.

Regionally, the report analyzes the pH Sensor markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global pH Sensor market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the pH Sensor market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the pH Sensor industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., General Purpose pH Sensors, High-Performance pH Sensors).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the pH Sensor market.

Regional Analysis: The report involves examining the pH Sensor market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the pH Sensor market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to pH Sensor:

Company Analysis: Report covers individual pH Sensor manufacturers, suppliers, and

other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards pH Sensor. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Medical and Healthcare Sector, Paper Industry).

Technology Analysis: Report covers specific technologies relevant to pH Sensor. It assesses the current state, advancements, and potential future developments in pH Sensor areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the pH Sensor market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

pH Sensor market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

General Purpose pH Sensors

High-Performance pH Sensors

High Purity pH Sensors

Other pH Sensors

Market segment by Application

Medical and Healthcare Sector

Paper Industry

Food & Beverage Industry

Agriculture Industry

Others

Major players covered

Honeywell

Omron

Hanna Instruments

Jenco Instruments

PreSens Precision Sensing

Texas Instruments

Banpil Photonics

Emerson Electric

Oceana Sensor Technologies

Metrohm

Yokogawa Electric

Infineon Technologies

REFEX Sensors

Xylem

Mettler-Toledo

In-Situ

Thermo Fisher Scientific

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

Chapter 2, to profile the top manufacturers of pH Sensor, with price, sales, revenue and global market share of pH Sensor from 2019 to 2024.

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

Chapter 4, the pH Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and pH Sensor market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 pH Sensor.

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

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