

Global pH Electrodes Market Growth 2026-2032

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Abstracts

The global pH Electrodes market size is predicted to grow from US\$ 1052 million in 2025 to US\$ 1316 million in 2032; it is expected to grow at a CAGR of 3.3% from 2026 to 2032.

In 2024, the global output of pH electrodes is 4.52 million units, with an average price of US\$230.6 per unit.

A pH electrode is a device that measures the acidity or alkalinity of a solution by detecting the hydrogen ion (H⁺) activity in the solution. It works by generating a measurable potential difference across a thin-walled glass membrane that is permeable to hydrogen ions, which is then correlated to the solution's pH value on a scale of 0-14. A pH electrode typically consists of a glass sensing electrode and a stable reference electrode, which together provide the necessary electrochemical signal to the connected pH meter.

The global pH electrode market is supported by stable and widespread demand from industries such as water and wastewater treatment, pharmaceuticals, food and beverages, chemical processing, and laboratories. The market continues to expand as industrial customers pursue tighter process control, increased uptime, and reduced calibration/maintenance costs.

Upstream in the supply chain are material and subassembly suppliers, whose quality determines product lifespan and stability. Critical upstream inputs include the pH-sensitive glass formulation for traditional glass membrane electrodes, reference electrode salts and KCl electrolyte, connection and diaphragm materials (ceramic, polymer, gel), connectors (BNC, DIN), preamplifier electronics, plastic/epoxy/metal housings, and silicon wafers, CMOS/ASIC preamplifiers, and packaging materials for ISFET sensors. Therefore, upstream suppliers of precision glass, specialty ceramics,

vacuum/cleanroom processing for semiconductor ISFETs, and manufacturers of micro-reference systems significantly influence performance and cost.

Downstream demand is driven by both replacement purchases and initial installations. Municipal and industrial water treatment plants are among the largest recurring buyers, as probes require regular replacement and recalibration. Pharmaceutical and biotech manufacturers require certified and traceable probes and typically source them from qualified suppliers. Food and beverage customers favor hygienic and CIP-compatible probes. Environmental monitoring users prefer rugged, low-power field probes. Contract testing laboratories and educational buyers increase the steady flow of low-value, high-volume products, benefiting distributors and aftermarket channels. On the service side, recalibration, repairs, and sales of reference solutions and replacement connectors constitute a significant downstream revenue source, as many end users prefer service agreements to extend sensor life.

Glass electrode manufacturers have moderate production capacity and capital intensity, while ISFET and advanced probe manufacturers have significantly higher production capacity and capital intensity. Typical small and medium-sized electrode manufacturers can expand their scale by adding membrane forming and assembly lines, while ISFET producers require access to semiconductor processing and cleanroom capacity, prompting them to seek partnerships or foundries. Regional differences are significant: Asia boasts large and flexible commodity electrode production capacity, benefiting from lower labor and material costs; while Europe and North America focus on high-value, certified, and automated production, often aligned with standards for the aerospace, pharmaceutical, and power industries. Suppliers that disclose factory floor space or integrated production lines are generally better positioned to win large supply contracts and offer shorter lead times for high-volume orders.

Profitability varies across the supply chain, depending on product mix. Meter and instrument manufacturers typically have mid-range gross margins for the electronics industry, while electrodes, spare parts, and consumables offer significantly higher margins and generate attractive recurring revenue streams. Gross margins for aftermarket spare parts and consumables average approximately 40% to 60%, making service and consumables the primary profit lever. In contrast, commodity electrodes and low-cost laboratory probes face significant price pressure and shrinking equipment-based margins. Therefore, companies that can bundle calibration, spare parts, and long-term service contracts typically achieve higher lifetime profit margins. Broader electronic equipment benchmarks indicate that instrument gross margins are typically concentrated around 20% to 40%, depending on the vertical, while top aftermarket

players can significantly increase overall business gross margins through consumables and services.

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

This Insight Report provides a comprehensive analysis of the global pH Electrodes 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 pH Electrodes portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global pH Electrodes market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for pH Electrodes 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 pH Electrodes.

This report presents a comprehensive overview, market shares, and growth opportunities of pH Electrodes market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Glass-body Electrode

Epoxy-body Electrode

Segmentation by Application:

Industrial

Chemical

Agriculture

Medical

Food

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.

BOQU

Sentek

Hamilton

Hanna Instruments

Jenway

Metrohm

Mettler Toledo

XS Instruments

Xylem Analytics

PCE

ABB

Iwaki

Sensorex

Key Questions Addressed in this Report

What is the 10-year outlook for the global pH Electrodes market?

What factors are driving pH Electrodes market growth, globally and by region?

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

How do pH Electrodes market opportunities vary by end market size?

How does pH Electrodes break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global pH Electrodes Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for pH Electrodes by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for pH Electrodes by Country/Region, 2021, 2025 & 2032
- 2.2 pH Electrodes Segment by Type
 - 2.2.1 Glass-body Electrode
 - 2.2.2 Epoxy-body Electrode
 - 2.2.3 pH Electrodes Sales by Type
 - 2.2.3.1 Global pH Electrodes Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global pH Electrodes Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global pH Electrodes Sale Price by Type (2021-2026)
- 2.3 pH Electrodes Segment by Application
 - 2.3.1 Industrial
 - 2.3.2 Chemical
 - 2.3.3 Agriculture
 - 2.3.4 Medical
 - 2.3.5 Food
 - 2.3.6 pH Electrodes Sales by Application
 - 2.3.6.1 Global pH Electrodes Sale Market Share by Application (2021-2026)
 - 2.3.6.2 Global pH Electrodes Revenue and Market Share by Application (2021-2026)
 - 2.3.6.3 Global pH Electrodes Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global pH Electrodes Breakdown Data by Company

3.1.1 Global pH Electrodes Annual Sales by Company (2021-2026)

3.1.2 Global pH Electrodes Sales Market Share by Company (2021-2026)

3.2 Global pH Electrodes Annual Revenue by Company (2021-2026)

3.2.1 Global pH Electrodes Revenue by Company (2021-2026)

3.2.2 Global pH Electrodes Revenue Market Share by Company (2021-2026)

3.3 Global pH Electrodes Sale Price by Company

3.4 Key Manufacturers pH Electrodes Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers pH Electrodes Product Location Distribution

3.4.2 Players pH Electrodes Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PH ELECTRODES BY GEOGRAPHIC REGION

4.1 World Historic pH Electrodes Market Size by Geographic Region (2021-2026)

4.1.1 Global pH Electrodes Annual Sales by Geographic Region (2021-2026)

4.1.2 Global pH Electrodes Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic pH Electrodes Market Size by Country/Region (2021-2026)

4.2.1 Global pH Electrodes Annual Sales by Country/Region (2021-2026)

4.2.2 Global pH Electrodes Annual Revenue by Country/Region (2021-2026)

4.3 Americas pH Electrodes Sales Growth

4.4 APAC pH Electrodes Sales Growth

4.5 Europe pH Electrodes Sales Growth

4.6 Middle East & Africa pH Electrodes Sales Growth

5 AMERICAS

5.1 Americas pH Electrodes Sales by Country

5.1.1 Americas pH Electrodes Sales by Country (2021-2026)

5.1.2 Americas pH Electrodes Revenue by Country (2021-2026)

5.2 Americas pH Electrodes Sales by Type (2021-2026)

5.3 Americas pH Electrodes Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC pH Electrodes Sales by Region

6.1.1 APAC pH Electrodes Sales by Region (2021-2026)

6.1.2 APAC pH Electrodes Revenue by Region (2021-2026)

6.2 APAC pH Electrodes Sales by Type (2021-2026)

6.3 APAC pH Electrodes Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe pH Electrodes by Country

7.1.1 Europe pH Electrodes Sales by Country (2021-2026)

7.1.2 Europe pH Electrodes Revenue by Country (2021-2026)

7.2 Europe pH Electrodes Sales by Type (2021-2026)

7.3 Europe pH Electrodes Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa pH Electrodes by Country

8.1.1 Middle East & Africa pH Electrodes Sales by Country (2021-2026)

8.1.2 Middle East & Africa pH Electrodes Revenue by Country (2021-2026)

8.2 Middle East & Africa pH Electrodes Sales by Type (2021-2026)

8.3 Middle East & Africa pH Electrodes Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of pH Electrodes

10.3 Manufacturing Process Analysis of pH Electrodes

10.4 Industry Chain Structure of pH Electrodes

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 pH Electrodes Distributors

11.3 pH Electrodes Customer

12 WORLD FORECAST REVIEW FOR PH ELECTRODES BY GEOGRAPHIC REGION

12.1 Global pH Electrodes Market Size Forecast by Region

12.1.1 Global pH Electrodes Forecast by Region (2027-2032)

12.1.2 Global pH Electrodes Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global pH Electrodes Forecast by Type (2027-2032)

12.7 Global pH Electrodes Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 BOQU

13.1.1 BOQU Company Information

13.1.2 BOQU pH Electrodes Product Portfolios and Specifications

13.1.3 BOQU pH Electrodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 BOQU Main Business Overview

13.1.5 BOQU Latest Developments

13.2 Sentek

13.2.1 Sentek Company Information

13.2.2 Sentek pH Electrodes Product Portfolios and Specifications

13.2.3 Sentek pH Electrodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Sentek Main Business Overview

13.2.5 Sentek Latest Developments

13.3 Hamilton

13.3.1 Hamilton Company Information

13.3.2 Hamilton pH Electrodes Product Portfolios and Specifications

13.3.3 Hamilton pH Electrodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Hamilton Main Business Overview

13.3.5 Hamilton Latest Developments

13.4 Hanna Instruments

13.4.1 Hanna Instruments Company Information

13.4.2 Hanna Instruments pH Electrodes Product Portfolios and Specifications

13.4.3 Hanna Instruments pH Electrodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Hanna Instruments Main Business Overview

13.4.5 Hanna Instruments Latest Developments

13.5 Jenway

13.5.1 Jenway Company Information

13.5.2 Jenway pH Electrodes Product Portfolios and Specifications

13.5.3 Jenway pH Electrodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Jenway Main Business Overview

13.5.5 Jenway Latest Developments

13.6 Metrohm

13.6.1 Metrohm Company Information

13.6.2 Metrohm pH Electrodes Product Portfolios and Specifications

13.6.3 Metrohm pH Electrodes Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.6.4 Metrohm Main Business Overview
- 13.6.5 Metrohm Latest Developments
- 13.7 Mettler Toledo
 - 13.7.1 Mettler Toledo Company Information
 - 13.7.2 Mettler Toledo pH Electrodes Product Portfolios and Specifications
 - 13.7.3 Mettler Toledo pH Electrodes Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Mettler Toledo Main Business Overview
 - 13.7.5 Mettler Toledo Latest Developments
- 13.8 XS Instruments
 - 13.8.1 XS Instruments Company Information
 - 13.8.2 XS Instruments pH Electrodes Product Portfolios and Specifications
 - 13.8.3 XS Instruments pH Electrodes Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 XS Instruments Main Business Overview
 - 13.8.5 XS Instruments Latest Developments
- 13.9 Xylem Analytics
 - 13.9.1 Xylem Analytics Company Information
 - 13.9.2 Xylem Analytics pH Electrodes Product Portfolios and Specifications
 - 13.9.3 Xylem Analytics pH Electrodes Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Xylem Analytics Main Business Overview
 - 13.9.5 Xylem Analytics Latest Developments
- 13.10 PCE
 - 13.10.1 PCE Company Information
 - 13.10.2 PCE pH Electrodes Product Portfolios and Specifications
 - 13.10.3 PCE pH Electrodes Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 PCE Main Business Overview
 - 13.10.5 PCE Latest Developments
- 13.11 ABB
 - 13.11.1 ABB Company Information
 - 13.11.2 ABB pH Electrodes Product Portfolios and Specifications
 - 13.11.3 ABB pH Electrodes Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 ABB Main Business Overview
 - 13.11.5 ABB Latest Developments
- 13.12 Iwaki
 - 13.12.1 Iwaki Company Information
 - 13.12.2 Iwaki pH Electrodes Product Portfolios and Specifications
 - 13.12.3 Iwaki pH Electrodes Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Iwaki Main Business Overview

13.12.5 Iwaki Latest Developments

13.13 Sensorex

13.13.1 Sensorex Company Information

13.13.2 Sensorex pH Electrodes Product Portfolios and Specifications

13.13.3 Sensorex pH Electrodes Sales, Revenue, Price and Gross Margin
(2021-2026)

13.13.4 Sensorex Main Business Overview

13.13.5 Sensorex Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. pH Electrodes Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. pH Electrodes Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Glass-body Electrode
- Table 4. Major Players of Epoxy-body Electrode
- Table 5. Global pH Electrodes Sales by Type (2021-2026) & (Units)
- Table 6. Global pH Electrodes Sales Market Share by Type (2021-2026)
- Table 7. Global pH Electrodes Revenue by Type (2021-2026) & (\$ million)
- Table 8. Global pH Electrodes Revenue Market Share by Type (2021-2026)
- Table 9. Global pH Electrodes Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 10. Global pH Electrodes Sale by Application (2021-2026) & (Units)
- Table 11. Global pH Electrodes Sale Market Share by Application (2021-2026)
- Table 12. Global pH Electrodes Revenue by Application (2021-2026) & (\$ million)
- Table 13. Global pH Electrodes Revenue Market Share by Application (2021-2026)
- Table 14. Global pH Electrodes Sale Price by Application (2021-2026) & (US\$/Unit)
- Table 15. Global pH Electrodes Sales by Company (2021-2026) & (Units)
- Table 16. Global pH Electrodes Sales Market Share by Company (2021-2026)
- Table 17. Global pH Electrodes Revenue by Company (2021-2026) & (\$ millions)
- Table 18. Global pH Electrodes Revenue Market Share by Company (2021-2026)
- Table 19. Global pH Electrodes Sale Price by Company (2021-2026) & (US\$/Unit)
- Table 20. Key Manufacturers pH Electrodes Producing Area Distribution and Sales Area
- Table 21. Players pH Electrodes Products Offered
- Table 22. pH Electrodes Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 23. New Products and Potential Entrants
- Table 24. Market M&A Activity & Strategy
- Table 25. Global pH Electrodes Sales by Geographic Region (2021-2026) & (Units)
- Table 26. Global pH Electrodes Sales Market Share Geographic Region (2021-2026)
- Table 27. Global pH Electrodes Revenue by Geographic Region (2021-2026) & (\$ millions)
- Table 28. Global pH Electrodes Revenue Market Share by Geographic Region (2021-2026)
- Table 29. Global pH Electrodes Sales by Country/Region (2021-2026) & (Units)
- Table 30. Global pH Electrodes Sales Market Share by Country/Region (2021-2026)
- Table 31. Global pH Electrodes Revenue by Country/Region (2021-2026) & (\$ millions)

Table 32. Global pH Electrodes Revenue Market Share by Country/Region (2021-2026)
Table 33. Americas pH Electrodes Sales by Country (2021-2026) & (Units)
Table 34. Americas pH Electrodes Sales Market Share by Country (2021-2026)
Table 35. Americas pH Electrodes Revenue by Country (2021-2026) & (\$ millions)
Table 36. Americas pH Electrodes Sales by Type (2021-2026) & (Units)
Table 37. Americas pH Electrodes Sales by Application (2021-2026) & (Units)
Table 38. APAC pH Electrodes Sales by Region (2021-2026) & (Units)
Table 39. APAC pH Electrodes Sales Market Share by Region (2021-2026)
Table 40. APAC pH Electrodes Revenue by Region (2021-2026) & (\$ millions)
Table 41. APAC pH Electrodes Sales by Type (2021-2026) & (Units)
Table 42. APAC pH Electrodes Sales by Application (2021-2026) & (Units)
Table 43. Europe pH Electrodes Sales by Country (2021-2026) & (Units)
Table 44. Europe pH Electrodes Revenue by Country (2021-2026) & (\$ millions)
Table 45. Europe pH Electrodes Sales by Type (2021-2026) & (Units)
Table 46. Europe pH Electrodes Sales by Application (2021-2026) & (Units)
Table 47. Middle East & Africa pH Electrodes Sales by Country (2021-2026) & (Units)
Table 48. Middle East & Africa pH Electrodes Revenue Market Share by Country (2021-2026)
Table 49. Middle East & Africa pH Electrodes Sales by Type (2021-2026) & (Units)
Table 50. Middle East & Africa pH Electrodes Sales by Application (2021-2026) & (Units)
Table 51. Key Market Drivers & Growth Opportunities of pH Electrodes
Table 52. Key Market Challenges & Risks of pH Electrodes
Table 53. Key Industry Trends of pH Electrodes
Table 54. pH Electrodes Raw Material
Table 55. Key Suppliers of Raw Materials
Table 56. pH Electrodes Distributors List
Table 57. pH Electrodes Customer List
Table 58. Global pH Electrodes Sales Forecast by Region (2027-2032) & (Units)
Table 59. Global pH Electrodes Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 60. Americas pH Electrodes Sales Forecast by Country (2027-2032) & (Units)
Table 61. Americas pH Electrodes Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 62. APAC pH Electrodes Sales Forecast by Region (2027-2032) & (Units)
Table 63. APAC pH Electrodes Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 64. Europe pH Electrodes Sales Forecast by Country (2027-2032) & (Units)
Table 65. Europe pH Electrodes Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 66. Middle East & Africa pH Electrodes Sales Forecast by Country (2027-2032) & (Units)

Table 67. Middle East & Africa pH Electrodes Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 68. Global pH Electrodes Sales Forecast by Type (2027-2032) & (Units)

Table 69. Global pH Electrodes Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 70. Global pH Electrodes Sales Forecast by Application (2027-2032) & (Units)

Table 71. Global pH Electrodes Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 72. BOQU Basic Information, pH Electrodes Manufacturing Base, Sales Area and Its Competitors

Table 73. BOQU pH Electrodes Product Portfolios and Specifications

Table 74. BOQU pH Electrodes Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 75. BOQU Main Business

Table 76. BOQU Latest Developments

Table 77. Sentek Basic Information, pH Electrodes Manufacturing Base, Sales Area and Its Competitors

Table 78. Sentek pH Electrodes Product Portfolios and Specifications

Table 79. Sentek pH Electrodes Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 80. Sentek Main Business

Table 81. Sentek Latest Developments

Table 82. Hamilton Basic Information, pH Electrodes Manufacturing Base, Sales Area and Its Competitors

Table 83. Hamilton pH Electrodes Product Portfolios and Specifications

Table 84. Hamilton pH Electrodes Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 85. Hamilton Main Business

Table 86. Hamilton Latest Developments

Table 87. Hanna Instruments Basic Information, pH Electrodes Manufacturing Base, Sales Area and Its Competitors

Table 88. Hanna Instruments pH Electrodes Product Portfolios and Specifications

Table 89. Hanna Instruments pH Electrodes Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. Hanna Instruments Main Business

Table 91. Hanna Instruments Latest Developments

Table 92. Jenway Basic Information, pH Electrodes Manufacturing Base, Sales Area and Its Competitors

Table 93. Jenway pH Electrodes Product Portfolios and Specifications
Table 94. Jenway pH Electrodes Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 95. Jenway Main Business
Table 96. Jenway Latest Developments
Table 97. Metrohm Basic Information, pH Electrodes Manufacturing Base, Sales Area and Its Competitors
Table 98. Metrohm pH Electrodes Product Portfolios and Specifications
Table 99. Metrohm pH Electrodes Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 100. Metrohm Main Business
Table 101. Metrohm Latest Developments
Table 102. Mettler Toledo Basic Information, pH Electrodes Manufacturing Base, Sales Area and Its Competitors
Table 103. Mettler Toledo pH Electrodes Product Portfolios and Specifications
Table 104. Mettler Toledo pH Electrodes Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 105. Mettler Toledo Main Business
Table 106. Mettler Toledo Latest Developments
Table 107. XS Instruments Basic Information, pH Electrodes Manufacturing Base, Sales Area and Its Competitors
Table 108. XS Instruments pH Electrodes Product Portfolios and Specifications
Table 109. XS Instruments pH Electrodes Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 110. XS Instruments Main Business
Table 111. XS Instruments Latest Developments
Table 112. Xylem Analytics Basic Information, pH Electrodes Manufacturing Base, Sales Area and Its Competitors
Table 113. Xylem Analytics pH Electrodes Product Portfolios and Specifications
Table 114. Xylem Analytics pH Electrodes Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 115. Xylem Analytics Main Business
Table 116. Xylem Analytics Latest Developments
Table 117. PCE Basic Information, pH Electrodes Manufacturing Base, Sales Area and Its Competitors
Table 118. PCE pH Electrodes Product Portfolios and Specifications
Table 119. PCE pH Electrodes Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 120. PCE Main Business

Table 121. PCE Latest Developments

Table 122. ABB Basic Information, pH Electrodes Manufacturing Base, Sales Area and Its Competitors

Table 123. ABB pH Electrodes Product Portfolios and Specifications

Table 124. ABB pH Electrodes Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 125. ABB Main Business

Table 126. ABB Latest Developments

Table 127. Iwaki Basic Information, pH Electrodes Manufacturing Base, Sales Area and Its Competitors

Table 128. Iwaki pH Electrodes Product Portfolios and Specifications

Table 129. Iwaki pH Electrodes Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 130. Iwaki Main Business

Table 131. Iwaki Latest Developments

Table 132. Sensorex Basic Information, pH Electrodes Manufacturing Base, Sales Area and Its Competitors

Table 133. Sensorex pH Electrodes Product Portfolios and Specifications

Table 134. Sensorex pH Electrodes Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 135. Sensorex Main Business

Table 136. Sensorex Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of pH Electrodes
- Figure 2. pH Electrodes Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global pH Electrodes Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global pH Electrodes Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. pH Electrodes Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. pH Electrodes Sales Market Share by Country/Region (2025)
- Figure 10. pH Electrodes Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Glass-body Electrode
- Figure 12. Product Picture of Epoxy-body Electrode
- Figure 13. Global pH Electrodes Sales Market Share by Type in 2026
- Figure 14. Global pH Electrodes Revenue Market Share by Type (2021-2026)
- Figure 15. pH Electrodes Consumed in Industrial
- Figure 16. Global pH Electrodes Market: Industrial (2021-2026) & (Units)
- Figure 17. pH Electrodes Consumed in Chemical
- Figure 18. Global pH Electrodes Market: Chemical (2021-2026) & (Units)
- Figure 19. pH Electrodes Consumed in Agriculture
- Figure 20. Global pH Electrodes Market: Agriculture (2021-2026) & (Units)
- Figure 21. pH Electrodes Consumed in Medical
- Figure 22. Global pH Electrodes Market: Medical (2021-2026) & (Units)
- Figure 23. pH Electrodes Consumed in Food
- Figure 24. Global pH Electrodes Market: Food (2021-2026) & (Units)
- Figure 25. Global pH Electrodes Sale Market Share by Application (2025)
- Figure 26. Global pH Electrodes Revenue Market Share by Application in 2026
- Figure 27. pH Electrodes Sales by Company in 2026 (Units)
- Figure 28. Global pH Electrodes Sales Market Share by Company in 2026
- Figure 29. pH Electrodes Revenue by Company in 2026 (\$ millions)
- Figure 30. Global pH Electrodes Revenue Market Share by Company in 2026
- Figure 31. Global pH Electrodes Sales Market Share by Geographic Region (2021-2026)
- Figure 32. Global pH Electrodes Revenue Market Share by Geographic Region in 2026
- Figure 33. Americas pH Electrodes Sales 2021-2026 (Units)
- Figure 34. Americas pH Electrodes Revenue 2021-2026 (\$ millions)

- Figure 35. APAC pH Electrodes Sales 2021-2026 (Units)
- Figure 36. APAC pH Electrodes Revenue 2021-2026 (\$ millions)
- Figure 37. Europe pH Electrodes Sales 2021-2026 (Units)
- Figure 38. Europe pH Electrodes Revenue 2021-2026 (\$ millions)
- Figure 39. Middle East & Africa pH Electrodes Sales 2021-2026 (Units)
- Figure 40. Middle East & Africa pH Electrodes Revenue 2021-2026 (\$ millions)
- Figure 41. Americas pH Electrodes Sales Market Share by Country in 2026
- Figure 42. Americas pH Electrodes Revenue Market Share by Country (2021-2026)
- Figure 43. Americas pH Electrodes Sales Market Share by Type (2021-2026)
- Figure 44. Americas pH Electrodes Sales Market Share by Application (2021-2026)
- Figure 45. United States pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 46. Canada pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 47. Mexico pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 48. Brazil pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 49. APAC pH Electrodes Sales Market Share by Region in 2026
- Figure 50. APAC pH Electrodes Revenue Market Share by Region (2021-2026)
- Figure 51. APAC pH Electrodes Sales Market Share by Type (2021-2026)
- Figure 52. APAC pH Electrodes Sales Market Share by Application (2021-2026)
- Figure 53. China pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 54. Japan pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 55. South Korea pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 56. Southeast Asia pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 57. India pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 58. Australia pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 59. China Taiwan pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 60. Europe pH Electrodes Sales Market Share by Country in 2026
- Figure 61. Europe pH Electrodes Revenue Market Share by Country (2021-2026)
- Figure 62. Europe pH Electrodes Sales Market Share by Type (2021-2026)
- Figure 63. Europe pH Electrodes Sales Market Share by Application (2021-2026)
- Figure 64. Germany pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 65. France pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 66. UK pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 67. Italy pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 68. Russia pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 69. Middle East & Africa pH Electrodes Sales Market Share by Country (2021-2026)
- Figure 70. Middle East & Africa pH Electrodes Sales Market Share by Type (2021-2026)
- Figure 71. Middle East & Africa pH Electrodes Sales Market Share by Application (2021-2026)

- Figure 72. Egypt pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 73. South Africa pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 74. Israel pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 75. Turkey pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 76. GCC Countries pH Electrodes Revenue Growth 2021-2026 (\$ millions)
- Figure 77. Manufacturing Cost Structure Analysis of pH Electrodes in 2026
- Figure 78. Manufacturing Process Analysis of pH Electrodes
- Figure 79. Industry Chain Structure of pH Electrodes
- Figure 80. Channels of Distribution
- Figure 81. Global pH Electrodes Sales Market Forecast by Region (2027-2032)
- Figure 82. Global pH Electrodes Revenue Market Share Forecast by Region (2027-2032)
- Figure 83. Global pH Electrodes Sales Market Share Forecast by Type (2027-2032)
- Figure 84. Global pH Electrodes Revenue Market Share Forecast by Type (2027-2032)
- Figure 85. Global pH Electrodes Sales Market Share Forecast by Application (2027-2032)
- Figure 86. Global pH Electrodes Revenue Market Share Forecast by Application (2027-2032)

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