

Global pH Electrodes 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 pH Electrodes market size was valued at US\$ 1145 million in 2025 and is forecast to a readjusted size of US\$ 1500 million by 2032 with a CAGR of 4.0% during review period.

In 2025, the global output of pH electrodes is 4.88 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.

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

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

Global pH Electrodes 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 pH Electrodes 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 pH Electrodes

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 pH Electrodes 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 BOQU, Sentek, Hamilton, Hanna Instruments, Jenway, Metrohm, Mettler Toledo, XS Instruments, Xylem Analytics, PCE, etc.

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

Market Segmentation

pH Electrodes 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

Composite Electrode

Split Electrode

Three-in-One Electrode

Market segment by Sensitive Membrane Material

Glass Membrane

Solid Polymer Membrane

ISFET Semiconductor

Metal Oxide

Market segment by Maintenance Method

Refillable

Non-refillable Gel Type

Disposable

Market segment by Application

Water Quality Monitoring

Chemical Industry

Food and Beverage

Biomedicine

Agriculture

Laboratory

Major players covered

BOQU

Sentek

Hamilton

Hanna Instruments

Jenway

Metrohm

Mettler Toledo

XS Instruments

Xylem Analytics

PCE

ABB

Iwaki

Sensorex

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 Electrodes product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the pH Electrodes 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 pH Electrodes 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 pH Electrodes.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global pH Electrodes Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Composite Electrode

1.3.3 Split Electrode

1.3.4 Three-in-One Electrode

1.4 Market Analysis by Sensitive Membrane Material

1.4.1 Overview: Global pH Electrodes Consumption Value by Sensitive Membrane Material: 2021 Versus 2025 Versus 2032

1.4.2 Glass Membrane

1.4.3 Solid Polymer Membrane

1.4.4 ISFET Semiconductor

1.4.5 Metal Oxide

1.5 Market Analysis by Maintenance Method

1.5.1 Overview: Global pH Electrodes Consumption Value by Maintenance Method: 2021 Versus 2025 Versus 2032

1.5.2 Refillable

1.5.3 Non-refillable Gel Type

1.5.4 Disposable

1.6 Market Analysis by Application

1.6.1 Overview: Global pH Electrodes Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Water Quality Monitoring

1.6.3 Chemical Industry

1.6.4 Food and Beverage

1.6.5 Biomedicine

1.6.6 Agriculture

1.6.7 Laboratory

1.7 Global pH Electrodes Market Size & Forecast

1.7.1 Global pH Electrodes Consumption Value (2021 & 2025 & 2032)

1.7.2 Global pH Electrodes Sales Quantity (2021-2032)

1.7.3 Global pH Electrodes Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 BOQU

2.1.1 BOQU Details

2.1.2 BOQU Major Business

2.1.3 BOQU pH Electrodes Product and Services

2.1.4 BOQU pH Electrodes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 BOQU Recent Developments/Updates

2.2 Sentek

2.2.1 Sentek Details

2.2.2 Sentek Major Business

2.2.3 Sentek pH Electrodes Product and Services

2.2.4 Sentek pH Electrodes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Sentek Recent Developments/Updates

2.3 Hamilton

2.3.1 Hamilton Details

2.3.2 Hamilton Major Business

2.3.3 Hamilton pH Electrodes Product and Services

2.3.4 Hamilton pH Electrodes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Hamilton Recent Developments/Updates

2.4 Hanna Instruments

2.4.1 Hanna Instruments Details

2.4.2 Hanna Instruments Major Business

2.4.3 Hanna Instruments pH Electrodes Product and Services

2.4.4 Hanna Instruments pH Electrodes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Hanna Instruments Recent Developments/Updates

2.5 Jenway

2.5.1 Jenway Details

2.5.2 Jenway Major Business

2.5.3 Jenway pH Electrodes Product and Services

2.5.4 Jenway pH Electrodes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Jenway Recent Developments/Updates

2.6 Metrohm

2.6.1 Metrohm Details

- 2.6.2 Metrohm Major Business
- 2.6.3 Metrohm pH Electrodes Product and Services
- 2.6.4 Metrohm pH Electrodes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Metrohm Recent Developments/Updates
- 2.7 Mettler Toledo
 - 2.7.1 Mettler Toledo Details
 - 2.7.2 Mettler Toledo Major Business
 - 2.7.3 Mettler Toledo pH Electrodes Product and Services
 - 2.7.4 Mettler Toledo pH Electrodes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Mettler Toledo Recent Developments/Updates
- 2.8 XS Instruments
 - 2.8.1 XS Instruments Details
 - 2.8.2 XS Instruments Major Business
 - 2.8.3 XS Instruments pH Electrodes Product and Services
 - 2.8.4 XS Instruments pH Electrodes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 XS Instruments Recent Developments/Updates
- 2.9 Xylem Analytics
 - 2.9.1 Xylem Analytics Details
 - 2.9.2 Xylem Analytics Major Business
 - 2.9.3 Xylem Analytics pH Electrodes Product and Services
 - 2.9.4 Xylem Analytics pH Electrodes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Xylem Analytics Recent Developments/Updates
- 2.10 PCE
 - 2.10.1 PCE Details
 - 2.10.2 PCE Major Business
 - 2.10.3 PCE pH Electrodes Product and Services
 - 2.10.4 PCE pH Electrodes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 PCE Recent Developments/Updates
- 2.11 ABB
 - 2.11.1 ABB Details
 - 2.11.2 ABB Major Business
 - 2.11.3 ABB pH Electrodes Product and Services
 - 2.11.4 ABB pH Electrodes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.11.5 ABB Recent Developments/Updates
- 2.12 Iwaki
 - 2.12.1 Iwaki Details
 - 2.12.2 Iwaki Major Business
 - 2.12.3 Iwaki pH Electrodes Product and Services
 - 2.12.4 Iwaki pH Electrodes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 Iwaki Recent Developments/Updates
- 2.13 Sensorex
 - 2.13.1 Sensorex Details
 - 2.13.2 Sensorex Major Business
 - 2.13.3 Sensorex pH Electrodes Product and Services
 - 2.13.4 Sensorex pH Electrodes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 Sensorex Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: PH ELECTRODES BY MANUFACTURER

- 3.1 Global pH Electrodes Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global pH Electrodes Revenue by Manufacturer (2021-2026)
- 3.3 Global pH Electrodes Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of pH Electrodes by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 pH Electrodes Manufacturer Market Share in 2025
 - 3.4.3 Top 6 pH Electrodes Manufacturer Market Share in 2025
- 3.5 pH Electrodes Market: Overall Company Footprint Analysis
 - 3.5.1 pH Electrodes Market: Region Footprint
 - 3.5.2 pH Electrodes Market: Company Product Type Footprint
 - 3.5.3 pH Electrodes Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global pH Electrodes Market Size by Region
 - 4.1.1 Global pH Electrodes Sales Quantity by Region (2021-2032)
 - 4.1.2 Global pH Electrodes Consumption Value by Region (2021-2032)
 - 4.1.3 Global pH Electrodes Average Price by Region (2021-2032)

- 4.2 North America pH Electrodes Consumption Value (2021-2032)
- 4.3 Europe pH Electrodes Consumption Value (2021-2032)
- 4.4 Asia-Pacific pH Electrodes Consumption Value (2021-2032)
- 4.5 South America pH Electrodes Consumption Value (2021-2032)
- 4.6 Middle East & Africa pH Electrodes Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global pH Electrodes Sales Quantity by Type (2021-2032)
- 5.2 Global pH Electrodes Consumption Value by Type (2021-2032)
- 5.3 Global pH Electrodes Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global pH Electrodes Sales Quantity by Application (2021-2032)
- 6.2 Global pH Electrodes Consumption Value by Application (2021-2032)
- 6.3 Global pH Electrodes Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America pH Electrodes Sales Quantity by Type (2021-2032)
- 7.2 North America pH Electrodes Sales Quantity by Application (2021-2032)
- 7.3 North America pH Electrodes Market Size by Country
 - 7.3.1 North America pH Electrodes Sales Quantity by Country (2021-2032)
 - 7.3.2 North America pH Electrodes Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe pH Electrodes Sales Quantity by Type (2021-2032)
- 8.2 Europe pH Electrodes Sales Quantity by Application (2021-2032)
- 8.3 Europe pH Electrodes Market Size by Country
 - 8.3.1 Europe pH Electrodes Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe pH Electrodes Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific pH Electrodes Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific pH Electrodes Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific pH Electrodes Market Size by Region

9.3.1 Asia-Pacific pH Electrodes Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific pH Electrodes Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America pH Electrodes Sales Quantity by Type (2021-2032)

10.2 South America pH Electrodes Sales Quantity by Application (2021-2032)

10.3 South America pH Electrodes Market Size by Country

10.3.1 South America pH Electrodes Sales Quantity by Country (2021-2032)

10.3.2 South America pH Electrodes Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa pH Electrodes Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa pH Electrodes Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa pH Electrodes Market Size by Country

11.3.1 Middle East & Africa pH Electrodes Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa pH Electrodes Consumption Value by Country
(2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 pH Electrodes Market Drivers
- 12.2 pH Electrodes Market Restraints
- 12.3 pH Electrodes Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of pH Electrodes and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of pH Electrodes
- 13.3 pH Electrodes Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 pH Electrodes Typical Distributors
- 14.3 pH Electrodes Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global pH Electrodes Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global pH Electrodes Consumption Value by Sensitive Membrane Material, (USD Million), 2021 & 2025 & 2032

Table 3. Global pH Electrodes Consumption Value by Maintenance Method, (USD Million), 2021 & 2025 & 2032

Table 4. Global pH Electrodes Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. BOQU Basic Information, Manufacturing Base and Competitors

Table 6. BOQU Major Business

Table 7. BOQU pH Electrodes Product and Services

Table 8. BOQU pH Electrodes Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. BOQU Recent Developments/Updates

Table 10. Sentek Basic Information, Manufacturing Base and Competitors

Table 11. Sentek Major Business

Table 12. Sentek pH Electrodes Product and Services

Table 13. Sentek pH Electrodes Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Sentek Recent Developments/Updates

Table 15. Hamilton Basic Information, Manufacturing Base and Competitors

Table 16. Hamilton Major Business

Table 17. Hamilton pH Electrodes Product and Services

Table 18. Hamilton pH Electrodes Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Hamilton Recent Developments/Updates

Table 20. Hanna Instruments Basic Information, Manufacturing Base and Competitors

Table 21. Hanna Instruments Major Business

Table 22. Hanna Instruments pH Electrodes Product and Services

Table 23. Hanna Instruments pH Electrodes Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Hanna Instruments Recent Developments/Updates

Table 25. Jenway Basic Information, Manufacturing Base and Competitors

Table 26. Jenway Major Business

Table 27. Jenway pH Electrodes Product and Services

Table 28. Jenway pH Electrodes Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Jenway Recent Developments/Updates

Table 30. Metrohm Basic Information, Manufacturing Base and Competitors

Table 31. Metrohm Major Business

Table 32. Metrohm pH Electrodes Product and Services

Table 33. Metrohm pH Electrodes Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Metrohm Recent Developments/Updates

Table 35. Mettler Toledo Basic Information, Manufacturing Base and Competitors

Table 36. Mettler Toledo Major Business

Table 37. Mettler Toledo pH Electrodes Product and Services

Table 38. Mettler Toledo pH Electrodes Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Mettler Toledo Recent Developments/Updates

Table 40. XS Instruments Basic Information, Manufacturing Base and Competitors

Table 41. XS Instruments Major Business

Table 42. XS Instruments pH Electrodes Product and Services

Table 43. XS Instruments pH Electrodes Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. XS Instruments Recent Developments/Updates

Table 45. Xylem Analytics Basic Information, Manufacturing Base and Competitors

Table 46. Xylem Analytics Major Business

Table 47. Xylem Analytics pH Electrodes Product and Services

Table 48. Xylem Analytics pH Electrodes Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Xylem Analytics Recent Developments/Updates

Table 50. PCE Basic Information, Manufacturing Base and Competitors

Table 51. PCE Major Business

Table 52. PCE pH Electrodes Product and Services

Table 53. PCE pH Electrodes Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. PCE Recent Developments/Updates

Table 55. ABB Basic Information, Manufacturing Base and Competitors

Table 56. ABB Major Business

Table 57. ABB pH Electrodes Product and Services

Table 58. ABB pH Electrodes Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. ABB Recent Developments/Updates

- Table 60. Iwaki Basic Information, Manufacturing Base and Competitors
- Table 61. Iwaki Major Business
- Table 62. Iwaki pH Electrodes Product and Services
- Table 63. Iwaki pH Electrodes Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 64. Iwaki Recent Developments/Updates
- Table 65. Sensorex Basic Information, Manufacturing Base and Competitors
- Table 66. Sensorex Major Business
- Table 67. Sensorex pH Electrodes Product and Services
- Table 68. Sensorex pH Electrodes Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 69. Sensorex Recent Developments/Updates
- Table 70. Global pH Electrodes Sales Quantity by Manufacturer (2021-2026) & (Units)
- Table 71. Global pH Electrodes Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 72. Global pH Electrodes Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 73. Market Position of Manufacturers in pH Electrodes, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 74. Head Office and pH Electrodes Production Site of Key Manufacturer
- Table 75. pH Electrodes Market: Company Product Type Footprint
- Table 76. pH Electrodes Market: Company Product Application Footprint
- Table 77. pH Electrodes New Market Entrants and Barriers to Market Entry
- Table 78. pH Electrodes Mergers, Acquisition, Agreements, and Collaborations
- Table 79. Global pH Electrodes Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 80. Global pH Electrodes Sales Quantity by Region (2021-2026) & (Units)
- Table 81. Global pH Electrodes Sales Quantity by Region (2027-2032) & (Units)
- Table 82. Global pH Electrodes Consumption Value by Region (2021-2026) & (USD Million)
- Table 83. Global pH Electrodes Consumption Value by Region (2027-2032) & (USD Million)
- Table 84. Global pH Electrodes Average Price by Region (2021-2026) & (US\$/Unit)
- Table 85. Global pH Electrodes Average Price by Region (2027-2032) & (US\$/Unit)
- Table 86. Global pH Electrodes Sales Quantity by Type (2021-2026) & (Units)
- Table 87. Global pH Electrodes Sales Quantity by Type (2027-2032) & (Units)
- Table 88. Global pH Electrodes Consumption Value by Type (2021-2026) & (USD Million)
- Table 89. Global pH Electrodes Consumption Value by Type (2027-2032) & (USD Million)

- Table 90. Global pH Electrodes Average Price by Type (2021-2026) & (US\$/Unit)
- Table 91. Global pH Electrodes Average Price by Type (2027-2032) & (US\$/Unit)
- Table 92. Global pH Electrodes Sales Quantity by Application (2021-2026) & (Units)
- Table 93. Global pH Electrodes Sales Quantity by Application (2027-2032) & (Units)
- Table 94. Global pH Electrodes Consumption Value by Application (2021-2026) & (USD Million)
- Table 95. Global pH Electrodes Consumption Value by Application (2027-2032) & (USD Million)
- Table 96. Global pH Electrodes Average Price by Application (2021-2026) & (US\$/Unit)
- Table 97. Global pH Electrodes Average Price by Application (2027-2032) & (US\$/Unit)
- Table 98. North America pH Electrodes Sales Quantity by Type (2021-2026) & (Units)
- Table 99. North America pH Electrodes Sales Quantity by Type (2027-2032) & (Units)
- Table 100. North America pH Electrodes Sales Quantity by Application (2021-2026) & (Units)
- Table 101. North America pH Electrodes Sales Quantity by Application (2027-2032) & (Units)
- Table 102. North America pH Electrodes Sales Quantity by Country (2021-2026) & (Units)
- Table 103. North America pH Electrodes Sales Quantity by Country (2027-2032) & (Units)
- Table 104. North America pH Electrodes Consumption Value by Country (2021-2026) & (USD Million)
- Table 105. North America pH Electrodes Consumption Value by Country (2027-2032) & (USD Million)
- Table 106. Europe pH Electrodes Sales Quantity by Type (2021-2026) & (Units)
- Table 107. Europe pH Electrodes Sales Quantity by Type (2027-2032) & (Units)
- Table 108. Europe pH Electrodes Sales Quantity by Application (2021-2026) & (Units)
- Table 109. Europe pH Electrodes Sales Quantity by Application (2027-2032) & (Units)
- Table 110. Europe pH Electrodes Sales Quantity by Country (2021-2026) & (Units)
- Table 111. Europe pH Electrodes Sales Quantity by Country (2027-2032) & (Units)
- Table 112. Europe pH Electrodes Consumption Value by Country (2021-2026) & (USD Million)
- Table 113. Europe pH Electrodes Consumption Value by Country (2027-2032) & (USD Million)
- Table 114. Asia-Pacific pH Electrodes Sales Quantity by Type (2021-2026) & (Units)
- Table 115. Asia-Pacific pH Electrodes Sales Quantity by Type (2027-2032) & (Units)
- Table 116. Asia-Pacific pH Electrodes Sales Quantity by Application (2021-2026) & (Units)
- Table 117. Asia-Pacific pH Electrodes Sales Quantity by Application (2027-2032) &

(Units)

Table 118. Asia-Pacific pH Electrodes Sales Quantity by Region (2021-2026) & (Units)

Table 119. Asia-Pacific pH Electrodes Sales Quantity by Region (2027-2032) & (Units)

Table 120. Asia-Pacific pH Electrodes Consumption Value by Region (2021-2026) & (USD Million)

Table 121. Asia-Pacific pH Electrodes Consumption Value by Region (2027-2032) & (USD Million)

Table 122. South America pH Electrodes Sales Quantity by Type (2021-2026) & (Units)

Table 123. South America pH Electrodes Sales Quantity by Type (2027-2032) & (Units)

Table 124. South America pH Electrodes Sales Quantity by Application (2021-2026) & (Units)

Table 125. South America pH Electrodes Sales Quantity by Application (2027-2032) & (Units)

Table 126. South America pH Electrodes Sales Quantity by Country (2021-2026) & (Units)

Table 127. South America pH Electrodes Sales Quantity by Country (2027-2032) & (Units)

Table 128. South America pH Electrodes Consumption Value by Country (2021-2026) & (USD Million)

Table 129. South America pH Electrodes Consumption Value by Country (2027-2032) & (USD Million)

Table 130. Middle East & Africa pH Electrodes Sales Quantity by Type (2021-2026) & (Units)

Table 131. Middle East & Africa pH Electrodes Sales Quantity by Type (2027-2032) & (Units)

Table 132. Middle East & Africa pH Electrodes Sales Quantity by Application (2021-2026) & (Units)

Table 133. Middle East & Africa pH Electrodes Sales Quantity by Application (2027-2032) & (Units)

Table 134. Middle East & Africa pH Electrodes Sales Quantity by Country (2021-2026) & (Units)

Table 135. Middle East & Africa pH Electrodes Sales Quantity by Country (2027-2032) & (Units)

Table 136. Middle East & Africa pH Electrodes Consumption Value by Country (2021-2026) & (USD Million)

Table 137. Middle East & Africa pH Electrodes Consumption Value by Country (2027-2032) & (USD Million)

Table 138. pH Electrodes Raw Material

Table 139. Key Manufacturers of pH Electrodes Raw Materials

Table 140. pH Electrodes Typical Distributors

Table 141. pH Electrodes Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. pH Electrodes Picture
- Figure 2. Global pH Electrodes Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global pH Electrodes Revenue Market Share by Type in 2025
- Figure 4. Composite Electrode Examples
- Figure 5. Split Electrode Examples
- Figure 6. Three-in-One Electrode Examples
- Figure 7. Global pH Electrodes Revenue by Sensitive Membrane Material, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global pH Electrodes Revenue Market Share by Sensitive Membrane Material in 2025
- Figure 9. Glass Membrane Examples
- Figure 10. Solid Polymer Membrane Examples
- Figure 11. ISFET Semiconductor Examples
- Figure 12. Metal Oxide Examples
- Figure 13. Global pH Electrodes Revenue by Maintenance Method, (USD Million), 2021 & 2025 & 2032
- Figure 14. Global pH Electrodes Revenue Market Share by Maintenance Method in 2025
- Figure 15. Refillable Examples
- Figure 16. Non-refillable Gel Type Examples
- Figure 17. Disposable Examples
- Figure 18. Global pH Electrodes Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 19. Global pH Electrodes Revenue Market Share by Application in 2025
- Figure 20. Water Quality Monitoring Examples
- Figure 21. Chemical Industry Examples
- Figure 22. Food and Beverage Examples
- Figure 23. Biomedicine Examples
- Figure 24. Agriculture Examples
- Figure 25. Laboratory Examples
- Figure 26. Global pH Electrodes Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 27. Global pH Electrodes Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 28. Global pH Electrodes Sales Quantity (2021-2032) & (Units)

- Figure 29. Global pH Electrodes Price (2021-2032) & (US\$/Unit)
- Figure 30. Global pH Electrodes Sales Quantity Market Share by Manufacturer in 2025
- Figure 31. Global pH Electrodes Revenue Market Share by Manufacturer in 2025
- Figure 32. Producer Shipments of pH Electrodes by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 33. Top 3 pH Electrodes Manufacturer (Revenue) Market Share in 2025
- Figure 34. Top 6 pH Electrodes Manufacturer (Revenue) Market Share in 2025
- Figure 35. Global pH Electrodes Sales Quantity Market Share by Region (2021-2032)
- Figure 36. Global pH Electrodes Consumption Value Market Share by Region (2021-2032)
- Figure 37. North America pH Electrodes Consumption Value (2021-2032) & (USD Million)
- Figure 38. Europe pH Electrodes Consumption Value (2021-2032) & (USD Million)
- Figure 39. Asia-Pacific pH Electrodes Consumption Value (2021-2032) & (USD Million)
- Figure 40. South America pH Electrodes Consumption Value (2021-2032) & (USD Million)
- Figure 41. Middle East & Africa pH Electrodes Consumption Value (2021-2032) & (USD Million)
- Figure 42. Global pH Electrodes Sales Quantity Market Share by Type (2021-2032)
- Figure 43. Global pH Electrodes Consumption Value Market Share by Type (2021-2032)
- Figure 44. Global pH Electrodes Average Price by Type (2021-2032) & (US\$/Unit)
- Figure 45. Global pH Electrodes Sales Quantity Market Share by Application (2021-2032)
- Figure 46. Global pH Electrodes Revenue Market Share by Application (2021-2032)
- Figure 47. Global pH Electrodes Average Price by Application (2021-2032) & (US\$/Unit)
- Figure 48. North America pH Electrodes Sales Quantity Market Share by Type (2021-2032)
- Figure 49. North America pH Electrodes Sales Quantity Market Share by Application (2021-2032)
- Figure 50. North America pH Electrodes Sales Quantity Market Share by Country (2021-2032)
- Figure 51. North America pH Electrodes Consumption Value Market Share by Country (2021-2032)
- Figure 52. United States pH Electrodes Consumption Value (2021-2032) & (USD Million)
- Figure 53. Canada pH Electrodes Consumption Value (2021-2032) & (USD Million)
- Figure 54. Mexico pH Electrodes Consumption Value (2021-2032) & (USD Million)
- Figure 55. Europe pH Electrodes Sales Quantity Market Share by Type (2021-2032)

Figure 56. Europe pH Electrodes Sales Quantity Market Share by Application (2021-2032)

Figure 57. Europe pH Electrodes Sales Quantity Market Share by Country (2021-2032)

Figure 58. Europe pH Electrodes Consumption Value Market Share by Country (2021-2032)

Figure 59. Germany pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 60. France pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 61. United Kingdom pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 62. Russia pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 63. Italy pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 64. Asia-Pacific pH Electrodes Sales Quantity Market Share by Type (2021-2032)

Figure 65. Asia-Pacific pH Electrodes Sales Quantity Market Share by Application (2021-2032)

Figure 66. Asia-Pacific pH Electrodes Sales Quantity Market Share by Region (2021-2032)

Figure 67. Asia-Pacific pH Electrodes Consumption Value Market Share by Region (2021-2032)

Figure 68. China pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 69. Japan pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 70. South Korea pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 71. India pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 72. Southeast Asia pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 73. Australia pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 74. South America pH Electrodes Sales Quantity Market Share by Type (2021-2032)

Figure 75. South America pH Electrodes Sales Quantity Market Share by Application (2021-2032)

Figure 76. South America pH Electrodes Sales Quantity Market Share by Country (2021-2032)

Figure 77. South America pH Electrodes Consumption Value Market Share by Country (2021-2032)

Figure 78. Brazil pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 79. Argentina pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 80. Middle East & Africa pH Electrodes Sales Quantity Market Share by Type (2021-2032)

Figure 81. Middle East & Africa pH Electrodes Sales Quantity Market Share by

Application (2021-2032)

Figure 82. Middle East & Africa pH Electrodes Sales Quantity Market Share by Country (2021-2032)

Figure 83. Middle East & Africa pH Electrodes Consumption Value Market Share by Country (2021-2032)

Figure 84. Turkey pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 85. Egypt pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 86. Saudi Arabia pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 87. South Africa pH Electrodes Consumption Value (2021-2032) & (USD Million)

Figure 88. pH Electrodes Market Drivers

Figure 89. pH Electrodes Market Restraints

Figure 90. pH Electrodes Market Trends

Figure 91. Porters Five Forces Analysis

Figure 92. Manufacturing Cost Structure Analysis of pH Electrodes in 2025

Figure 93. Manufacturing Process Analysis of pH Electrodes

Figure 94. pH Electrodes Industrial Chain

Figure 95. Sales Channel: Direct to End-User vs Distributors

Figure 96. Direct Channel Pros & Cons

Figure 97. Indirect Channel Pros & Cons

Figure 98. Methodology

Figure 99. Research Process and Data Source

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