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Global pH and ORP Probes for Municipal Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global pH and ORP Probes for Municipal market size is expected to reach $ 356 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

pH and ORP Probes for Municipal refer to electrochemical sensing devices used for continuous or intermittent measurement of acidity/alkalinity and oxidation-reduction potential in municipal drinking water, wastewater treatment, sewage collection, reclaimed-water systems, sludge treatment, and other public water infrastructure. pH probes measure hydrogen-ion activity in water, typically using a glass membrane or other ion-sensitive sensing element together with a reference electrode, while ORP probes measure the oxidation-reduction condition of water using an inert metal electrode, commonly platinum or gold. In municipal applications, these probes are commonly installed in aeration tanks, equalization basins, neutralization tanks, disinfection systems, oxidation ditches, effluent channels, pipelines, and water-treatment process units. They are used to control chemical dosing, biological treatment, nitrification and denitrification, chlorination, oxidation, neutralization, and regulatory discharge compliance. Products may use analog or digital signal output and can incorporate temperature compensation, automatic diagnostics, calibration memory, fouling-resistant reference systems, and remote communication functions.

pH and ORP Probes for Municipal pricing varies depending on electrode structure, communication method, fouling resistance, installation configuration, digital diagnostics, and maintenance requirements. Standard analog municipal pH probes typically range from approximately USD 80–250 per unit, while heavy-duty differential or fouling-resistant pH probes generally range from USD 200–600 per unit. Digital pH probes with integrated temperature compensation, diagnostics, calibration memory, or digital

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communication commonly range from USD 250–700 per unit. Standard municipal ORP probes generally range from USD 100–300 per unit, while differential, self-cleaning, or heavy-duty ORP probes may range from USD 250–600 per unit. Complete installations including probe holders, immersion assemblies, transmitters, automatic cleaning systems, and controllers may range from several hundred to several thousand dollars per measuring point.

The upstream supply chain mainly includes pH-sensitive glass, platinum or gold ORP electrodes, silver/silver-chloride reference systems, electrolytes, ceramic junctions, temperature sensors, signal-conditioning chips, microcontrollers, digital communication modules, connectors, cables, and chemically resistant materials such as PVC, CPVC, PPS, PVDF, and PEEK. Midstream participants include electrochemical sensor manufacturers, municipal water-quality instrument suppliers, online analyzer manufacturers, probe-housing and cleaning-system suppliers, and system integrators. Key production processes include sensing membrane preparation, electrode assembly, reference-electrolyte filling, sealing, calibration, temperature compensation, electrical testing, and chemical-resistance verification. Downstream users mainly include municipal drinking-water plants, wastewater treatment plants, sewage utilities, reclaimed-water facilities, pumping stations, sludge-treatment facilities, environmental monitoring departments, engineering contractors, and water-utility operators.

Market Drivers

The pH and ORP Probes for Municipal market is primarily driven by increasingly stringent drinking-water quality standards, wastewater discharge regulations, and requirements for automated municipal water management. Municipal treatment plants require continuous pH monitoring for coagulation, neutralization, chemical dosing, biological treatment, disinfection, and effluent compliance, while ORP measurement is widely used to monitor anaerobic, anoxic, and aerobic conditions and to optimize nitrification, denitrification, oxidation, and disinfection processes. Expansion and upgrading of wastewater treatment capacity, stricter nutrient-removal requirements, and increasing use of reclaimed water are supporting new probe installations. In addition, digital transformation of water utilities is increasing adoption of online sensors with automatic diagnostics, remote monitoring, digital communication, and predictive maintenance capabilities. Replacement demand is also significant because probes are consumable sensing devices subject to fouling, aging, and periodic replacement.

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Market Restraints

A major restraint for the municipal pH and ORP probe market is sensor fouling and limited service life in wastewater environments. Municipal wastewater can contain suspended solids, grease, fibers, biological films, sulfides, scaling substances, and other contaminants that coat sensing surfaces and reference junctions, causing measurement drift and increased maintenance. Regular cleaning and calibration are therefore required, particularly in aeration tanks, sludge processes, and untreated wastewater. Municipal utilities are also highly cost-sensitive and often purchase instrumentation through public procurement processes, creating pressure on product pricing. Budget constraints may slow replacement of conventional analog probes with higher-priced digital sensors. In addition, differences in plant design, process conditions, existing transmitters, communication protocols, and maintenance practices can limit standardization across municipal installations.

Market Opportunities

Significant opportunities are emerging from smart water infrastructure, advanced wastewater treatment, nutrient removal, and digital utility management. Municipal water utilities are increasingly deploying connected sensors, supervisory control systems, cloud-based monitoring, and predictive maintenance platforms to reduce manual sampling and improve process efficiency. Digital pH and ORP probes with onboard calibration records, sensor-health diagnostics, automatic temperature compensation, and remote communication can reduce maintenance labor and improve data reliability. More stringent nitrogen and phosphorus discharge limits are increasing the importance of ORP monitoring in biological nutrient removal processes. Growth in reclaimed-water systems, decentralized wastewater treatment, advanced oxidation, desalination pretreatment, and industrial-municipal integrated water systems also creates additional demand. Self-cleaning probe assemblies, replaceable reference junctions, fouling-resistant sensors, and low-maintenance digital platforms represent important product-development opportunities.

Market Challenges

The municipal pH and ORP probe industry faces challenges related to fouling, calibration frequency, reference-electrode stability, installation conditions, and long-term measurement reliability. Wastewater composition can change significantly over time,

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while suspended solids, biological growth, chemicals, and low-flow conditions can affect sensor response. ORP measurements can be especially sensitive to electrode-surface contamination and local process chemistry, requiring careful interpretation. Sensor location is also critical because poor mixing, air bubbles, sediment accumulation, or installation near chemical-dosing points can result in non-representative readings. Municipal operators require instruments that are robust, easy to maintain, and compatible with existing control systems, while manufacturers must balance these requirements with increasingly advanced digital functionality. Maintaining low lifecycle cost while improving accuracy, reliability, and communication capability remains a key competitive challenge.

Report Scope

This report studies the global pH and ORP Probes for Municipal production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for pH and ORP Probes for Municipal and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of pH and ORP Probes for Municipal that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global pH and ORP Probes for Municipal total production and demand, 2021-2032, (K Units)

Global pH and ORP Probes for Municipal total production value, 2021-2032, (USD Million)

Global pH and ORP Probes for Municipal production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global pH and ORP Probes for Municipal consumption by region & country, CAGR, 2021-2032 & (K Units)

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U.S. VS China: pH and ORP Probes for Municipal domestic production, consumption, key domestic manufacturers and share

Global pH and ORP Probes for Municipal production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global pH and ORP Probes for Municipal production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global pH and ORP Probes for Municipal production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global pH and ORP Probes for Municipal market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ABB, Mettler Toledo, GF Piping Systems, Endress+Hauser, Emerson, Honeywell, Yokogawa, Thermo Fisher Scientific, Xylem, Hamilton, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World pH and ORP Probes for Municipal market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global pH and ORP Probes for Municipal Market, By Region:

United States

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China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global pH and ORP Probes for Municipal Market, Segmentation by Type:

Digital Probes

Analog Probes

Global pH and ORP Probes for Municipal Market, Segmentation by Measurement:

pH Probes

ORP Probes

Combined pH/ORP Probes

Global pH and ORP Probes for Municipal Market, Segmentation by Sensing Technology:

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Glass Electrode Probes

ISFET Probes

Antimony & Metal Electrode Probes

Others

Global pH and ORP Probes for Municipal Market, Segmentation by Application:

Waste Water

Pure Water

Drinking Water

Others

Companies Profiled:

ABB

Mettler Toledo

GF Piping Systems

Endress+Hauser

Emerson

Honeywell

Yokogawa

Thermo Fisher Scientific

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Xylem

Hamilton

Hach

Bürkert

AMETEK

HORIBA

KROHNE

Knick

ProMinent

Badger Meter

Sensorex

JUMO

Schneider Electric

GMM Pfaudler

Walchem

Turtle Tough

Key Questions Answered

1. How big is the global pH and ORP Probes for Municipal market?
2. What is the demand of the global pH and ORP Probes for Municipal market?
3. What is the year over year growth of the global pH and ORP Probes for Municipal

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market?
4. What is the total value of the global pH and ORP Probes for Municipal market?
5. Who are the Major Players in the global pH and ORP Probes for Municipal market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 pH and ORP Probes for Municipal Introduction
1.2 World pH and ORP Probes for Municipal Supply & Forecast
  1.2.1 World pH and ORP Probes for Municipal Production Value (2021 & 2025 & 2032)
  1.2.2 World pH and ORP Probes for Municipal Production (2021-2032)
  1.2.3 World pH and ORP Probes for Municipal Pricing Trends (2021-2032)
1.3 World pH and ORP Probes for Municipal Production by Region (Based on Production Site)
  1.3.1 World pH and ORP Probes for Municipal Production Value by Region (2021-2032)
  1.3.2 World pH and ORP Probes for Municipal Production by Region (2021-2032)
  1.3.3 World pH and ORP Probes for Municipal Average Price by Region (2021-2032)
  1.3.4 North America pH and ORP Probes for Municipal Production (2021-2032)
  1.3.5 Europe pH and ORP Probes for Municipal Production (2021-2032)
  1.3.6 China pH and ORP Probes for Municipal Production (2021-2032)
  1.3.7 Japan pH and ORP Probes for Municipal Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 pH and ORP Probes for Municipal Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 pH and ORP Probes for Municipal Major Market Trends

2 DEMAND SUMMARY

2.1 World pH and ORP Probes for Municipal Demand (2021-2032)
2.2 World pH and ORP Probes for Municipal Consumption by Region
  2.2.1 World pH and ORP Probes for Municipal Consumption by Region (2021-2026)
  2.2.2 World pH and ORP Probes for Municipal Consumption Forecast by Region (2027-2032)
2.3 United States pH and ORP Probes for Municipal Consumption (2021-2032)
2.4 China pH and ORP Probes for Municipal Consumption (2021-2032)
2.5 Europe pH and ORP Probes for Municipal Consumption (2021-2032)
2.6 Japan pH and ORP Probes for Municipal Consumption (2021-2032)
2.7 South Korea pH and ORP Probes for Municipal Consumption (2021-2032)
2.8 ASEAN pH and ORP Probes for Municipal Consumption (2021-2032)
2.9 India pH and ORP Probes for Municipal Consumption (2021-2032)

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3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World pH and ORP Probes for Municipal Production Value by Manufacturer (2021-2026)
3.2 World pH and ORP Probes for Municipal Production by Manufacturer (2021-2026)
3.3 World pH and ORP Probes for Municipal Average Price by Manufacturer (2021-2026)
3.4 pH and ORP Probes for Municipal Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global pH and ORP Probes for Municipal Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for pH and ORP Probes for Municipal in 2025
  3.5.3 Global Concentration Ratios (CR8) for pH and ORP Probes for Municipal in 2025
3.6 pH and ORP Probes for Municipal Market: Overall Company Footprint Analysis
  3.6.1 pH and ORP Probes for Municipal Market: Region Footprint
  3.6.2 pH and ORP Probes for Municipal Market: Company Product Type Footprint
  3.6.3 pH and ORP Probes for Municipal Market: Company Product Application Footprint
3.7 Competitive Environment
  3.7.1 Historical Structure of the Industry
  3.7.2 Barriers of Market Entry
  3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: pH and ORP Probes for Municipal Production Value Comparison
  4.1.1 United States VS China: pH and ORP Probes for Municipal Production Value Comparison (2021 & 2025 & 2032)
  4.1.2 United States VS China: pH and ORP Probes for Municipal Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: pH and ORP Probes for Municipal Production Comparison
  4.2.1 United States VS China: pH and ORP Probes for Municipal Production Comparison (2021 & 2025 & 2032)
  4.2.2 United States VS China: pH and ORP Probes for Municipal Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: pH and ORP Probes for Municipal Consumption Comparison

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4.3.1 United States VS China: pH and ORP Probes for Municipal Consumption Comparison (2021 & 2025 & 2032)
4.3.2 United States VS China: pH and ORP Probes for Municipal Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based pH and ORP Probes for Municipal Manufacturers and Market Share, 2021-2026
4.4.1 United States Based pH and ORP Probes for Municipal Manufacturers, Headquarters and Production Site (States, Country)
4.4.2 United States Based Manufacturers pH and ORP Probes for Municipal Production Value (2021-2026)
4.4.3 United States Based Manufacturers pH and ORP Probes for Municipal Production (2021-2026)
4.5 China Based pH and ORP Probes for Municipal Manufacturers and Market Share
4.5.1 China Based pH and ORP Probes for Municipal Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers pH and ORP Probes for Municipal Production Value (2021-2026)
4.5.3 China Based Manufacturers pH and ORP Probes for Municipal Production (2021-2026)
4.6 Rest of World Based pH and ORP Probes for Municipal Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based pH and ORP Probes for Municipal Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers pH and ORP Probes for Municipal Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers pH and ORP Probes for Municipal Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World pH and ORP Probes for Municipal Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Digital Probes
5.2.2 Analog Probes
5.3 Market Segment by Type
5.3.1 World pH and ORP Probes for Municipal Production by Type (2021-2032)
5.3.2 World pH and ORP Probes for Municipal Production Value by Type (2021-2032)
5.3.3 World pH and ORP Probes for Municipal Average Price by Type (2021-2032)

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6 MARKET ANALYSIS BY MEASUREMENT

6.1 World pH and ORP Probes for Municipal Market Size Overview by Measurement: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Measurement
  6.2.1 pH Probes
  6.2.2 ORP Probes
  6.2.3 Combined pH/ORP Probes
6.3 Market Segment by Measurement
  6.3.1 World pH and ORP Probes for Municipal Production by Measurement (2021-2032)
  6.3.2 World pH and ORP Probes for Municipal Production Value by Measurement (2021-2032)
  6.3.3 World pH and ORP Probes for Municipal Average Price by Measurement (2021-2032)

7 MARKET ANALYSIS BY SENSING TECHNOLOGY

7.1 World pH and ORP Probes for Municipal Market Size Overview by Sensing Technology: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Sensing Technology
  7.2.1 Glass Electrode Probes
  7.2.2 ISFET Probes
  7.2.3 Antimony & Metal Electrode Probes
  7.2.4 Others
7.3 Market Segment by Sensing Technology
  7.3.1 World pH and ORP Probes for Municipal Production by Sensing Technology (2021-2032)
  7.3.2 World pH and ORP Probes for Municipal Production Value by Sensing Technology (2021-2032)
  7.3.3 World pH and ORP Probes for Municipal Average Price by Sensing Technology (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World pH and ORP Probes for Municipal Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application

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8.2.1 Waste Water
8.2.2 Pure Water
8.2.3 Drinking Water
8.2.4 Others
8.3 Market Segment by Application
8.3.1 World pH and ORP Probes for Municipal Production by Application (2021-2032)
8.3.2 World pH and ORP Probes for Municipal Production Value by Application (2021-2032)
8.3.3 World pH and ORP Probes for Municipal Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 ABB
9.1.1 ABB Details
9.1.2 ABB Major Business
9.1.3 ABB pH and ORP Probes for Municipal Product and Services
9.1.4 ABB pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 ABB Recent Developments/Updates
9.1.6 ABB Competitive Strengths & Weaknesses
9.2 Mettler Toledo
9.2.1 Mettler Toledo Details
9.2.2 Mettler Toledo Major Business
9.2.3 Mettler Toledo pH and ORP Probes for Municipal Product and Services
9.2.4 Mettler Toledo pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 Mettler Toledo Recent Developments/Updates
9.2.6 Mettler Toledo Competitive Strengths & Weaknesses
9.3 GF Piping Systems
9.3.1 GF Piping Systems Details
9.3.2 GF Piping Systems Major Business
9.3.3 GF Piping Systems pH and ORP Probes for Municipal Product and Services
9.3.4 GF Piping Systems pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 GF Piping Systems Recent Developments/Updates
9.3.6 GF Piping Systems Competitive Strengths & Weaknesses
9.4 Endress+Hauser
9.4.1 Endress+Hauser Details

+357 96 030922
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9.4.2 Endress+Hauser Major Business
9.4.3 Endress+Hauser pH and ORP Probes for Municipal Product and Services
9.4.4 Endress+Hauser pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 Endress+Hauser Recent Developments/Updates
9.4.6 Endress+Hauser Competitive Strengths & Weaknesses
9.5 Emerson
9.5.1 Emerson Details
9.5.2 Emerson Major Business
9.5.3 Emerson pH and ORP Probes for Municipal Product and Services
9.5.4 Emerson pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 Emerson Recent Developments/Updates
9.5.6 Emerson Competitive Strengths & Weaknesses
9.6 Honeywell
9.6.1 Honeywell Details
9.6.2 Honeywell Major Business
9.6.3 Honeywell pH and ORP Probes for Municipal Product and Services
9.6.4 Honeywell pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.6.5 Honeywell Recent Developments/Updates
9.6.6 Honeywell Competitive Strengths & Weaknesses
9.7 Yokogawa
9.7.1 Yokogawa Details
9.7.2 Yokogawa Major Business
9.7.3 Yokogawa pH and ORP Probes for Municipal Product and Services
9.7.4 Yokogawa pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.7.5 Yokogawa Recent Developments/Updates
9.7.6 Yokogawa Competitive Strengths & Weaknesses
9.8 Thermo Fisher Scientific
9.8.1 Thermo Fisher Scientific Details
9.8.2 Thermo Fisher Scientific Major Business
9.8.3 Thermo Fisher Scientific pH and ORP Probes for Municipal Product and Services
9.8.4 Thermo Fisher Scientific pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 Thermo Fisher Scientific Recent Developments/Updates
9.8.6 Thermo Fisher Scientific Competitive Strengths & Weaknesses
9.9 Xylem

+357 96 030922
info@marketpublishers.com

9.9.1 Xylem Details
9.9.2 Xylem Major Business
9.9.3 Xylem pH and ORP Probes for Municipal Product and Services
9.9.4 Xylem pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.9.5 Xylem Recent Developments/Updates
9.9.6 Xylem Competitive Strengths & Weaknesses
9.10 Hamilton
9.10.1 Hamilton Details
9.10.2 Hamilton Major Business
9.10.3 Hamilton pH and ORP Probes for Municipal Product and Services
9.10.4 Hamilton pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.10.5 Hamilton Recent Developments/Updates
9.10.6 Hamilton Competitive Strengths & Weaknesses
9.11 Hach
9.11.1 Hach Details
9.11.2 Hach Major Business
9.11.3 Hach pH and ORP Probes for Municipal Product and Services
9.11.4 Hach pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.11.5 Hach Recent Developments/Updates
9.11.6 Hach Competitive Strengths & Weaknesses
9.12 Bürkert
9.12.1 Bürkert Details
9.12.2 Bürkert Major Business
9.12.3 Bürkert pH and ORP Probes for Municipal Product and Services
9.12.4 Bürkert pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.12.5 Bürkert Recent Developments/Updates
9.12.6 Bürkert Competitive Strengths & Weaknesses
9.13 AMETEK
9.13.1 AMETEK Details
9.13.2 AMETEK Major Business
9.13.3 AMETEK pH and ORP Probes for Municipal Product and Services
9.13.4 AMETEK pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.13.5 AMETEK Recent Developments/Updates
9.13.6 AMETEK Competitive Strengths & Weaknesses

+357 96 030922
info@marketpublishers.com

9.14 HORIBA
9.14.1 HORIBA Details
9.14.2 HORIBA Major Business
9.14.3 HORIBA pH and ORP Probes for Municipal Product and Services
9.14.4 HORIBA pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.14.5 HORIBA Recent Developments/Updates
9.14.6 HORIBA Competitive Strengths & Weaknesses
9.15 KROHNE
9.15.1 KROHNE Details
9.15.2 KROHNE Major Business
9.15.3 KROHNE pH and ORP Probes for Municipal Product and Services
9.15.4 KROHNE pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.15.5 KROHNE Recent Developments/Updates
9.15.6 KROHNE Competitive Strengths & Weaknesses
9.16 Knick
9.16.1 Knick Details
9.16.2 Knick Major Business
9.16.3 Knick pH and ORP Probes for Municipal Product and Services
9.16.4 Knick pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.16.5 Knick Recent Developments/Updates
9.16.6 Knick Competitive Strengths & Weaknesses
9.17 ProMinent
9.17.1 ProMinent Details
9.17.2 ProMinent Major Business
9.17.3 ProMinent pH and ORP Probes for Municipal Product and Services
9.17.4 ProMinent pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.17.5 ProMinent Recent Developments/Updates
9.17.6 ProMinent Competitive Strengths & Weaknesses
9.18 Badger Meter
9.18.1 Badger Meter Details
9.18.2 Badger Meter Major Business
9.18.3 Badger Meter pH and ORP Probes for Municipal Product and Services
9.18.4 Badger Meter pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.18.5 Badger Meter Recent Developments/Updates

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9.18.6 Badger Meter Competitive Strengths & Weaknesses
9.19 Sensorex
9.19.1 Sensorex Details
9.19.2 Sensorex Major Business
9.19.3 Sensorex pH and ORP Probes for Municipal Product and Services
9.19.4 Sensorex pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.19.5 Sensorex Recent Developments/Updates
9.19.6 Sensorex Competitive Strengths & Weaknesses
9.20 JUMO
9.20.1 JUMO Details
9.20.2 JUMO Major Business
9.20.3 JUMO pH and ORP Probes for Municipal Product and Services
9.20.4 JUMO pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.20.5 JUMO Recent Developments/Updates
9.20.6 JUMO Competitive Strengths & Weaknesses
9.21 Schneider Electric
9.21.1 Schneider Electric Details
9.21.2 Schneider Electric Major Business
9.21.3 Schneider Electric pH and ORP Probes for Municipal Product and Services
9.21.4 Schneider Electric pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.21.5 Schneider Electric Recent Developments/Updates
9.21.6 Schneider Electric Competitive Strengths & Weaknesses
9.22 GMM Pfaudler
9.22.1 GMM Pfaudler Details
9.22.2 GMM Pfaudler Major Business
9.22.3 GMM Pfaudler pH and ORP Probes for Municipal Product and Services
9.22.4 GMM Pfaudler pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.22.5 GMM Pfaudler Recent Developments/Updates
9.22.6 GMM Pfaudler Competitive Strengths & Weaknesses
9.23 Walchem
9.23.1 Walchem Details
9.23.2 Walchem Major Business
9.23.3 Walchem pH and ORP Probes for Municipal Product and Services
9.23.4 Walchem pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)

+357 96 030922
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9.23.5 Walchem Recent Developments/Updates
9.23.6 Walchem Competitive Strengths & Weaknesses
9.24 Turtle Tough
9.24.1 Turtle Tough Details
9.24.2 Turtle Tough Major Business
9.24.3 Turtle Tough pH and ORP Probes for Municipal Product and Services
9.24.4 Turtle Tough pH and ORP Probes for Municipal Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.24.5 Turtle Tough Recent Developments/Updates
9.24.6 Turtle Tough Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 pH and ORP Probes for Municipal Industry Chain
10.2 pH and ORP Probes for Municipal Upstream Analysis
10.2.1 pH and ORP Probes for Municipal Core Raw Materials
10.2.2 Main Manufacturers of pH and ORP Probes for Municipal Core Raw Materials
10.3 Midstream Analysis
10.4 Downstream Analysis
10.5 pH and ORP Probes for Municipal Production Mode
10.6 pH and ORP Probes for Municipal Procurement Model
10.7 pH and ORP Probes for Municipal Industry Sales Model and Sales Channels
10.7.1 pH and ORP Probes for Municipal Sales Model
10.7.2 pH and ORP Probes for Municipal Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. World pH and ORP Probes for Municipal Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World pH and ORP Probes for Municipal Production Value by Region (2021-2026) & (USD Million)
Table 3. World pH and ORP Probes for Municipal Production Value by Region (2027-2032) & (USD Million)
Table 4. World pH and ORP Probes for Municipal Production Value Market Share by Region (2021-2026)
Table 5. World pH and ORP Probes for Municipal Production Value Market Share by Region (2027-2032)
Table 6. World pH and ORP Probes for Municipal Production by Region (2021-2026) & (K Units)
Table 7. World pH and ORP Probes for Municipal Production by Region (2027-2032) & (K Units)
Table 8. World pH and ORP Probes for Municipal Production Market Share by Region (2021-2026)
Table 9. World pH and ORP Probes for Municipal Production Market Share by Region (2027-2032)
Table 10. World pH and ORP Probes for Municipal Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World pH and ORP Probes for Municipal Average Price by Region (2027-2032) & (US$/Unit)
Table 12. pH and ORP Probes for Municipal Major Market Trends
Table 13. World pH and ORP Probes for Municipal Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
Table 14. World pH and ORP Probes for Municipal Consumption by Region (2021-2026) & (K Units)
Table 15. World pH and ORP Probes for Municipal Consumption Forecast by Region (2027-2032) & (K Units)
Table 16. World pH and ORP Probes for Municipal Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key pH and ORP Probes for Municipal Producers in 2025
Table 18. World pH and ORP Probes for Municipal Production by Manufacturer (2021-2026) & (K Units)

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Table 19. Production Market Share of Key pH and ORP Probes for Municipal Producers in 2025
Table 20. World pH and ORP Probes for Municipal Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 21. Global pH and ORP Probes for Municipal Company Evaluation Quadrant
Table 22. World pH and ORP Probes for Municipal Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and pH and ORP Probes for Municipal Production Site of Key Manufacturer
Table 24. pH and ORP Probes for Municipal Market: Company Product Type Footprint
Table 25. pH and ORP Probes for Municipal Market: Company Product Application Footprint
Table 26. pH and ORP Probes for Municipal Competitive Factors
Table 27. pH and ORP Probes for Municipal New Entrant and Capacity Expansion Plans
Table 28. pH and ORP Probes for Municipal Mergers & Acquisitions Activity
Table 29. United States VS China pH and ORP Probes for Municipal Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China pH and ORP Probes for Municipal Production Comparison, (2021 & 2025 & 2032) & (K Units)
Table 31. United States VS China pH and ORP Probes for Municipal Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
Table 32. United States Based pH and ORP Probes for Municipal Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers pH and ORP Probes for Municipal Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers pH and ORP Probes for Municipal Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers pH and ORP Probes for Municipal Production (2021-2026) & (K Units)
Table 36. United States Based Manufacturers pH and ORP Probes for Municipal Production Market Share (2021-2026)
Table 37. China Based pH and ORP Probes for Municipal Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers pH and ORP Probes for Municipal Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers pH and ORP Probes for Municipal Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers pH and ORP Probes for Municipal Production,

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(2021-2026) & (K Units)
Table 41. China Based Manufacturers pH and ORP Probes for Municipal Production Market Share (2021-2026)
Table 42. Rest of World Based pH and ORP Probes for Municipal Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers pH and ORP Probes for Municipal Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers pH and ORP Probes for Municipal Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers pH and ORP Probes for Municipal Production, (2021-2026) & (K Units)
Table 46. Rest of World Based Manufacturers pH and ORP Probes for Municipal Production Market Share (2021-2026)
Table 47. World pH and ORP Probes for Municipal Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World pH and ORP Probes for Municipal Production by Type (2021-2026) & (K Units)
Table 49. World pH and ORP Probes for Municipal Production by Type (2027-2032) & (K Units)
Table 50. World pH and ORP Probes for Municipal Production Value by Type (2021-2026) & (USD Million)
Table 51. World pH and ORP Probes for Municipal Production Value by Type (2027-2032) & (USD Million)
Table 52. World pH and ORP Probes for Municipal Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World pH and ORP Probes for Municipal Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World pH and ORP Probes for Municipal Production Value by Measurement, (USD Million), 2021 & 2025 & 2032
Table 55. World pH and ORP Probes for Municipal Production by Measurement (2021-2026) & (K Units)
Table 56. World pH and ORP Probes for Municipal Production by Measurement (2027-2032) & (K Units)
Table 57. World pH and ORP Probes for Municipal Production Value by Measurement (2021-2026) & (USD Million)
Table 58. World pH and ORP Probes for Municipal Production Value by Measurement (2027-2032) & (USD Million)
Table 59. World pH and ORP Probes for Municipal Average Price by Measurement (2021-2026) & (US$/Unit)

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Table 60. World pH and ORP Probes for Municipal Average Price by Measurement (2027-2032) & (US$/Unit)
Table 61. World pH and ORP Probes for Municipal Production Value by Sensing Technology, (USD Million), 2021 & 2025 & 2032
Table 62. World pH and ORP Probes for Municipal Production by Sensing Technology (2021-2026) & (K Units)
Table 63. World pH and ORP Probes for Municipal Production by Sensing Technology (2027-2032) & (K Units)
Table 64. World pH and ORP Probes for Municipal Production Value by Sensing Technology (2021-2026) & (USD Million)
Table 65. World pH and ORP Probes for Municipal Production Value by Sensing Technology (2027-2032) & (USD Million)
Table 66. World pH and ORP Probes for Municipal Average Price by Sensing Technology (2021-2026) & (US$/Unit)
Table 67. World pH and ORP Probes for Municipal Average Price by Sensing Technology (2027-2032) & (US$/Unit)
Table 68. World pH and ORP Probes for Municipal Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World pH and ORP Probes for Municipal Production by Application (2021-2026) & (K Units)
Table 70. World pH and ORP Probes for Municipal Production by Application (2027-2032) & (K Units)
Table 71. World pH and ORP Probes for Municipal Production Value by Application (2021-2026) & (USD Million)
Table 72. World pH and ORP Probes for Municipal Production Value by Application (2027-2032) & (USD Million)
Table 73. World pH and ORP Probes for Municipal Average Price by Application (2021-2026) & (US$/Unit)
Table 74. World pH and ORP Probes for Municipal Average Price by Application (2027-2032) & (US$/Unit)
Table 75. ABB Basic Information, Manufacturing Base and Competitors
Table 76. ABB Major Business
Table 77. ABB pH and ORP Probes for Municipal Product and Services
Table 78. ABB pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. ABB Recent Developments/Updates
Table 80. ABB Competitive Strengths & Weaknesses
Table 81. Mettler Toledo Basic Information, Manufacturing Base and Competitors

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Table 82. Mettler Toledo Major Business
Table 83. Mettler Toledo pH and ORP Probes for Municipal Product and Services
Table 84. Mettler Toledo pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Mettler Toledo Recent Developments/Updates
Table 86. Mettler Toledo Competitive Strengths & Weaknesses
Table 87. GF Piping Systems Basic Information, Manufacturing Base and Competitors
Table 88. GF Piping Systems Major Business
Table 89. GF Piping Systems pH and ORP Probes for Municipal Product and Services
Table 90. GF Piping Systems pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. GF Piping Systems Recent Developments/Updates
Table 92. GF Piping Systems Competitive Strengths & Weaknesses
Table 93. Endress+Hauser Basic Information, Manufacturing Base and Competitors
Table 94. Endress+Hauser Major Business
Table 95. Endress+Hauser pH and ORP Probes for Municipal Product and Services
Table 96. Endress+Hauser pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Endress+Hauser Recent Developments/Updates
Table 98. Endress+Hauser Competitive Strengths & Weaknesses
Table 99. Emerson Basic Information, Manufacturing Base and Competitors
Table 100. Emerson Major Business
Table 101. Emerson pH and ORP Probes for Municipal Product and Services
Table 102. Emerson pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Emerson Recent Developments/Updates
Table 104. Emerson Competitive Strengths & Weaknesses
Table 105. Honeywell Basic Information, Manufacturing Base and Competitors
Table 106. Honeywell Major Business
Table 107. Honeywell pH and ORP Probes for Municipal Product and Services
Table 108. Honeywell pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Honeywell Recent Developments/Updates
Table 110. Honeywell Competitive Strengths & Weaknesses

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Table 111. Yokogawa Basic Information, Manufacturing Base and Competitors
Table 112. Yokogawa Major Business
Table 113. Yokogawa pH and ORP Probes for Municipal Product and Services
Table 114. Yokogawa pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Yokogawa Recent Developments/Updates
Table 116. Yokogawa Competitive Strengths & Weaknesses
Table 117. Thermo Fisher Scientific Basic Information, Manufacturing Base and Competitors
Table 118. Thermo Fisher Scientific Major Business
Table 119. Thermo Fisher Scientific pH and ORP Probes for Municipal Product and Services
Table 120. Thermo Fisher Scientific pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Thermo Fisher Scientific Recent Developments/Updates
Table 122. Thermo Fisher Scientific Competitive Strengths & Weaknesses
Table 123. Xylem Basic Information, Manufacturing Base and Competitors
Table 124. Xylem Major Business
Table 125. Xylem pH and ORP Probes for Municipal Product and Services
Table 126. Xylem pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Xylem Recent Developments/Updates
Table 128. Xylem Competitive Strengths & Weaknesses
Table 129. Hamilton Basic Information, Manufacturing Base and Competitors
Table 130. Hamilton Major Business
Table 131. Hamilton pH and ORP Probes for Municipal Product and Services
Table 132. Hamilton pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Hamilton Recent Developments/Updates
Table 134. Hamilton Competitive Strengths & Weaknesses
Table 135. Hach Basic Information, Manufacturing Base and Competitors
Table 136. Hach Major Business
Table 137. Hach pH and ORP Probes for Municipal Product and Services
Table 138. Hach pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share

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(2021-2026)
Table 139. Hach Recent Developments/Updates
Table 140. Hach Competitive Strengths & Weaknesses
Table 141. Bürkert Basic Information, Manufacturing Base and Competitors
Table 142. Bürkert Major Business
Table 143. Bürkert pH and ORP Probes for Municipal Product and Services
Table 144. Bürkert pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Bürkert Recent Developments/Updates
Table 146. Bürkert Competitive Strengths & Weaknesses
Table 147. AMETEK Basic Information, Manufacturing Base and Competitors
Table 148. AMETEK Major Business
Table 149. AMETEK pH and ORP Probes for Municipal Product and Services
Table 150. AMETEK pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. AMETEK Recent Developments/Updates
Table 152. AMETEK Competitive Strengths & Weaknesses
Table 153. HORIBA Basic Information, Manufacturing Base and Competitors
Table 154. HORIBA Major Business
Table 155. HORIBA pH and ORP Probes for Municipal Product and Services
Table 156. HORIBA pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. HORIBA Recent Developments/Updates
Table 158. HORIBA Competitive Strengths & Weaknesses
Table 159. KROHNE Basic Information, Manufacturing Base and Competitors
Table 160. KROHNE Major Business
Table 161. KROHNE pH and ORP Probes for Municipal Product and Services
Table 162. KROHNE pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. KROHNE Recent Developments/Updates
Table 164. KROHNE Competitive Strengths & Weaknesses
Table 165. Knick Basic Information, Manufacturing Base and Competitors
Table 166. Knick Major Business
Table 167. Knick pH and ORP Probes for Municipal Product and Services
Table 168. Knick pH and ORP Probes for Municipal Production (K Units), Price

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(US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. Knick Recent Developments/Updates
Table 170. Knick Competitive Strengths & Weaknesses
Table 171. ProMinent Basic Information, Manufacturing Base and Competitors
Table 172. ProMinent Major Business
Table 173. ProMinent pH and ORP Probes for Municipal Product and Services
Table 174. ProMinent pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 175. ProMinent Recent Developments/Updates
Table 176. ProMinent Competitive Strengths & Weaknesses
Table 177. Badger Meter Basic Information, Manufacturing Base and Competitors
Table 178. Badger Meter Major Business
Table 179. Badger Meter pH and ORP Probes for Municipal Product and Services
Table 180. Badger Meter pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 181. Badger Meter Recent Developments/Updates
Table 182. Badger Meter Competitive Strengths & Weaknesses
Table 183. Sensorex Basic Information, Manufacturing Base and Competitors
Table 184. Sensorex Major Business
Table 185. Sensorex pH and ORP Probes for Municipal Product and Services
Table 186. Sensorex pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 187. Sensorex Recent Developments/Updates
Table 188. Sensorex Competitive Strengths & Weaknesses
Table 189. JUMO Basic Information, Manufacturing Base and Competitors
Table 190. JUMO Major Business
Table 191. JUMO pH and ORP Probes for Municipal Product and Services
Table 192. JUMO pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 193. JUMO Recent Developments/Updates
Table 194. JUMO Competitive Strengths & Weaknesses
Table 195. Schneider Electric Basic Information, Manufacturing Base and Competitors
Table 196. Schneider Electric Major Business
Table 197. Schneider Electric pH and ORP Probes for Municipal Product and Services

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Table 198. Schneider Electric pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 199. Schneider Electric Recent Developments/Updates
Table 200. Schneider Electric Competitive Strengths & Weaknesses
Table 201. GMM Pfaudler Basic Information, Manufacturing Base and Competitors
Table 202. GMM Pfaudler Major Business
Table 203. GMM Pfaudler pH and ORP Probes for Municipal Product and Services
Table 204. GMM Pfaudler pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 205. GMM Pfaudler Recent Developments/Updates
Table 206. GMM Pfaudler Competitive Strengths & Weaknesses
Table 207. Walchem Basic Information, Manufacturing Base and Competitors
Table 208. Walchem Major Business
Table 209. Walchem pH and ORP Probes for Municipal Product and Services
Table 210. Walchem pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 211. Walchem Recent Developments/Updates
Table 212. Walchem Competitive Strengths & Weaknesses
Table 213. Turtle Tough Basic Information, Manufacturing Base and Competitors
Table 214. Turtle Tough Major Business
Table 215. Turtle Tough pH and ORP Probes for Municipal Product and Services
Table 216. Turtle Tough pH and ORP Probes for Municipal Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 217. Turtle Tough Recent Developments/Updates
Table 218. Turtle Tough Competitive Strengths & Weaknesses
Table 219. Global Key Players of pH and ORP Probes for Municipal Upstream (Raw Materials)
Table 220. Global pH and ORP Probes for Municipal Typical Customers
Table 221. pH and ORP Probes for Municipal Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. pH and ORP Probes for Municipal Picture
Figure 2. World pH and ORP Probes for Municipal Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World pH and ORP Probes for Municipal Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World pH and ORP Probes for Municipal Production (2021-2032) & (K Units)
Figure 5. World pH and ORP Probes for Municipal Average Price (2021-2032) & (US$/Unit)
Figure 6. World pH and ORP Probes for Municipal Production Value Market Share by Region (2021-2032)
Figure 7. World pH and ORP Probes for Municipal Production Market Share by Region (2021-2032)
Figure 8. North America pH and ORP Probes for Municipal Production (2021-2032) & (K Units)
Figure 9. Europe pH and ORP Probes for Municipal Production (2021-2032) & (K Units)
Figure 10. China pH and ORP Probes for Municipal Production (2021-2032) & (K Units)
Figure 11. Japan pH and ORP Probes for Municipal Production (2021-2032) & (K Units)
Figure 12. pH and ORP Probes for Municipal Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World pH and ORP Probes for Municipal Consumption (2021-2032) & (K Units)
Figure 15. World pH and ORP Probes for Municipal Consumption Market Share by Region (2021-2032)
Figure 16. United States pH and ORP Probes for Municipal Consumption (2021-2032) & (K Units)
Figure 17. China pH and ORP Probes for Municipal Consumption (2021-2032) & (K Units)
Figure 18. Europe pH and ORP Probes for Municipal Consumption (2021-2032) & (K Units)
Figure 19. Japan pH and ORP Probes for Municipal Consumption (2021-2032) & (K Units)
Figure 20. South Korea pH and ORP Probes for Municipal Consumption (2021-2032) & (K Units)
Figure 21. ASEAN pH and ORP Probes for Municipal Consumption (2021-2032) & (K Units)

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Figure 22. India pH and ORP Probes for Municipal Consumption (2021-2032) & (K Units)
Figure 23. Producer Shipments of pH and ORP Probes for Municipal by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for pH and ORP Probes for Municipal Markets in 2025
Figure 25. Global Four-firm Concentration Ratios (CR8) for pH and ORP Probes for Municipal Markets in 2025
Figure 26. United States VS China: pH and ORP Probes for Municipal Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: pH and ORP Probes for Municipal Production Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: pH and ORP Probes for Municipal Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers pH and ORP Probes for Municipal Production Market Share 2025
Figure 30. China Based Manufacturers pH and ORP Probes for Municipal Production Market Share 2025
Figure 31. Rest of World Based Manufacturers pH and ORP Probes for Municipal Production Market Share 2025
Figure 32. World pH and ORP Probes for Municipal Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World pH and ORP Probes for Municipal Production Value Market Share by Type in 2025
Figure 34. Digital Probes
Figure 35. Analog Probes
Figure 36. World pH and ORP Probes for Municipal Production Market Share by Type (2021-2032)
Figure 37. World pH and ORP Probes for Municipal Production Value Market Share by Type (2021-2032)
Figure 38. World pH and ORP Probes for Municipal Average Price by Type (2021-2032) & (US$/Unit)
Figure 39. World pH and ORP Probes for Municipal Production Value by Measurement, (USD Million), 2021 & 2025 & 2032
Figure 40. World pH and ORP Probes for Municipal Production Value Market Share by Measurement in 2025
Figure 41. pH Probes
Figure 42. ORP Probes
Figure 43. Combined pH/ORP Probes

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Figure 44. World pH and ORP Probes for Municipal Production Market Share by Measurement (2021-2032)
Figure 45. World pH and ORP Probes for Municipal Production Value Market Share by Measurement (2021-2032)
Figure 46. World pH and ORP Probes for Municipal Average Price by Measurement (2021-2032) & (US$/Unit)
Figure 47. World pH and ORP Probes for Municipal Production Value by Sensing Technology, (USD Million), 2021 & 2025 & 2032
Figure 48. World pH and ORP Probes for Municipal Production Value Market Share by Sensing Technology in 2025
Figure 49. Glass Electrode Probes
Figure 50. ISFET Probes
Figure 51. Antimony & Metal Electrode Probes
Figure 52. Others
Figure 53. World pH and ORP Probes for Municipal Production Market Share by Sensing Technology (2021-2032)
Figure 54. World pH and ORP Probes for Municipal Production Value Market Share by Sensing Technology (2021-2032)
Figure 55. World pH and ORP Probes for Municipal Average Price by Sensing Technology (2021-2032) & (US$/Unit)
Figure 56. World pH and ORP Probes for Municipal Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 57. World pH and ORP Probes for Municipal Production Value Market Share by Application in 2025
Figure 58. Waste Water
Figure 59. Pure Water
Figure 60. Drinking Water
Figure 61. Others
Figure 62. World pH and ORP Probes for Municipal Production Market Share by Application (2021-2032)
Figure 63. World pH and ORP Probes for Municipal Production Value Market Share by Application (2021-2032)
Figure 64. World pH and ORP Probes for Municipal Average Price by Application (2021-2032) & (US$/Unit)
Figure 65. pH and ORP Probes for Municipal Industry Chain
Figure 66. pH and ORP Probes for Municipal Procurement Model
Figure 67. pH and ORP Probes for Municipal Sales Model
Figure 68. pH and ORP Probes for Municipal Sales Channels, Direct Sales, and Distribution

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Figure 69. Methodology
Figure 70. Research Process and Data Source

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