

Global Embedded Partial Discharge (PD) Sensor Market Research Report 2026(Status and Outlook)

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Abstracts

Partial discharge occurs inside insulation in assets such as a transformer, turbine generator, motor, switchgear or cable. Partial discharge occurs when one part of the insulation cannot withstand electric stress, so it flashes over. At that time, the gases are ionized and the voltage drops quickly. Then the current pulse equalizes the remaining charge in the remaining insulation. It's a rapid process that negatively affects the asset's life. This report focusses on Embedded Partial Discharge (PD) Sensor market.

The global Embedded Partial Discharge (PD) Sensor market size was estimated at USD 938.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 7.10% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Embedded Partial Discharge (PD) Sensor market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Embedded Partial Discharge (PD) Sensor market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a

nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Embedded Partial Discharge (PD) Sensor market.

Global Embedded Partial Discharge (PD) Sensor Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Rugged Monitoring Company
Qualitrol
HVPD
Sparks Instruments
Dynamic Ratings
Power Diagnostix Systems
OMICRON
Doble Engineering Company
IPEC Ltd
IRIS Power LP
Quartzteq
Chengdu Wilson Technology

Market Segmentation (by Type)

Pulse Current Method
Ultrasonic Method

Market Segmentation (by Application)

Switchgears
Generators
Motors
Transformers
Power Cables
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Embedded Partial Discharge (PD) Sensor Market
Overview of the regional outlook of the Embedded Partial Discharge (PD) Sensor Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Embedded Partial Discharge (PD) Sensor Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Embedded Partial Discharge (PD) Sensor, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share,

product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Embedded Partial Discharge (PD) Sensor
- 1.2 Key Market Segments
 - 1.2.1 Embedded Partial Discharge (PD) Sensor Segment by Type
 - 1.2.2 Embedded Partial Discharge (PD) Sensor Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 EMBEDDED PARTIAL DISCHARGE (PD) SENSOR MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Embedded Partial Discharge (PD) Sensor Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Embedded Partial Discharge (PD) Sensor Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 EMBEDDED PARTIAL DISCHARGE (PD) SENSOR MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Embedded Partial Discharge (PD) Sensor Product Life Cycle
- 3.3 Global Embedded Partial Discharge (PD) Sensor Sales by Manufacturers (2020-2025)
- 3.4 Global Embedded Partial Discharge (PD) Sensor Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Embedded Partial Discharge (PD) Sensor Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Embedded Partial Discharge (PD) Sensor Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Embedded Partial Discharge (PD) Sensor Market Competitive Situation and Trends

3.8.1 Embedded Partial Discharge (PD) Sensor Market Concentration Rate

3.8.2 Global 5 and 10 Largest Embedded Partial Discharge (PD) Sensor Players

Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 EMBEDDED PARTIAL DISCHARGE (PD) SENSOR INDUSTRY CHAIN ANALYSIS

4.1 Embedded Partial Discharge (PD) Sensor Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF EMBEDDED PARTIAL DISCHARGE (PD) SENSOR MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Embedded Partial Discharge (PD) Sensor Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Embedded Partial Discharge (PD) Sensor Market

5.7 ESG Ratings of Leading Companies

6 EMBEDDED PARTIAL DISCHARGE (PD) SENSOR MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Embedded Partial Discharge (PD) Sensor Sales Market Share by Type (2020-2025)
- 6.3 Global Embedded Partial Discharge (PD) Sensor Market Size by Type (2020-2025)
- 6.4 Global Embedded Partial Discharge (PD) Sensor Price by Type (2020-2025)

7 EMBEDDED PARTIAL DISCHARGE (PD) SENSOR MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Embedded Partial Discharge (PD) Sensor Market Sales by Application (2020-2025)
- 7.3 Global Embedded Partial Discharge (PD) Sensor Market Size (M USD) by Application (2020-2025)
- 7.4 Global Embedded Partial Discharge (PD) Sensor Sales Growth Rate by Application (2020-2025)

8 EMBEDDED PARTIAL DISCHARGE (PD) SENSOR MARKET SALES BY REGION

- 8.1 Global Embedded Partial Discharge (PD) Sensor Sales by Region
 - 8.1.1 Global Embedded Partial Discharge (PD) Sensor Sales by Region
 - 8.1.2 Global Embedded Partial Discharge (PD) Sensor Sales Market Share by Region
- 8.2 Global Embedded Partial Discharge (PD) Sensor Market Size by Region
 - 8.2.1 Global Embedded Partial Discharge (PD) Sensor Market Size by Region
 - 8.2.2 Global Embedded Partial Discharge (PD) Sensor Market Size by Region
- 8.3 North America
 - 8.3.1 North America Embedded Partial Discharge (PD) Sensor Sales by Country
 - 8.3.2 North America Embedded Partial Discharge (PD) Sensor Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Embedded Partial Discharge (PD) Sensor Sales by Country
 - 8.4.2 Europe Embedded Partial Discharge (PD) Sensor Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Embedded Partial Discharge (PD) Sensor Sales by Region

8.5.2 Asia Pacific Embedded Partial Discharge (PD) Sensor Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Embedded Partial Discharge (PD) Sensor Sales by Country

8.6.2 South America Embedded Partial Discharge (PD) Sensor Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Embedded Partial Discharge (PD) Sensor Sales by Region

8.7.2 Middle East and Africa Embedded Partial Discharge (PD) Sensor Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 EMBEDDED PARTIAL DISCHARGE (PD) SENSOR MARKET PRODUCTION BY REGION

9.1 Global Production of Embedded Partial Discharge (PD) Sensor by Region(2020-2025)

9.2 Global Embedded Partial Discharge (PD) Sensor Revenue Market Share by Region (2020-2025)

9.3 Global Embedded Partial Discharge (PD) Sensor Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Embedded Partial Discharge (PD) Sensor Production

9.4.1 North America Embedded Partial Discharge (PD) Sensor Production Growth Rate (2020-2025)

9.4.2 North America Embedded Partial Discharge (PD) Sensor Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Embedded Partial Discharge (PD) Sensor Production

9.5.1 Europe Embedded Partial Discharge (PD) Sensor Production Growth Rate (2020-2025)

9.5.2 Europe Embedded Partial Discharge (PD) Sensor Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Embedded Partial Discharge (PD) Sensor Production (2020-2025)

9.6.1 Japan Embedded Partial Discharge (PD) Sensor Production Growth Rate (2020-2025)

9.6.2 Japan Embedded Partial Discharge (PD) Sensor Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Embedded Partial Discharge (PD) Sensor Production (2020-2025)

9.7.1 China Embedded Partial Discharge (PD) Sensor Production Growth Rate (2020-2025)

9.7.2 China Embedded Partial Discharge (PD) Sensor Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Rugged Monitoring Company

10.1.1 Rugged Monitoring Company Basic Information

10.1.2 Rugged Monitoring Company Embedded Partial Discharge (PD) Sensor Product Overview

10.1.3 Rugged Monitoring Company Embedded Partial Discharge (PD) Sensor Product Market Performance

10.1.4 Rugged Monitoring Company Business Overview

10.1.5 Rugged Monitoring Company SWOT Analysis

10.1.6 Rugged Monitoring Company Recent Developments

10.2 Qualitrol

10.2.1 Qualitrol Basic Information

10.2.2 Qualitrol Embedded Partial Discharge (PD) Sensor Product Overview

10.2.3 Qualitrol Embedded Partial Discharge (PD) Sensor Product Market Performance

10.2.4 Qualitrol Business Overview

10.2.5 Qualitrol SWOT Analysis

10.2.6 Qualitrol Recent Developments

10.3 HVPD

10.3.1 HVPD Basic Information

- 10.3.2 HVPD Embedded Partial Discharge (PD) Sensor Product Overview
- 10.3.3 HVPD Embedded Partial Discharge (PD) Sensor Product Market Performance
- 10.3.4 HVPD Business Overview
- 10.3.5 HVPD SWOT Analysis
- 10.3.6 HVPD Recent Developments
- 10.4 Sparks Instruments
 - 10.4.1 Sparks Instruments Basic Information
 - 10.4.2 Sparks Instruments Embedded Partial Discharge (PD) Sensor Product Overview
 - 10.4.3 Sparks Instruments Embedded Partial Discharge (PD) Sensor Product Market Performance
 - 10.4.4 Sparks Instruments Business Overview
 - 10.4.5 Sparks Instruments Recent Developments
- 10.5 Dynamic Ratings
 - 10.5.1 Dynamic Ratings Basic Information
 - 10.5.2 Dynamic Ratings Embedded Partial Discharge (PD) Sensor Product Overview
 - 10.5.3 Dynamic Ratings Embedded Partial Discharge (PD) Sensor Product Market Performance
 - 10.5.4 Dynamic Ratings Business Overview
 - 10.5.5 Dynamic Ratings Recent Developments
- 10.6 Power Diagnostix Systems
 - 10.6.1 Power Diagnostix Systems Basic Information
 - 10.6.2 Power Diagnostix Systems Embedded Partial Discharge (PD) Sensor Product Overview
 - 10.6.3 Power Diagnostix Systems Embedded Partial Discharge (PD) Sensor Product Market Performance
 - 10.6.4 Power Diagnostix Systems Business Overview
 - 10.6.5 Power Diagnostix Systems Recent Developments
- 10.7 OMICRON
 - 10.7.1 OMICRON Basic Information
 - 10.7.2 OMICRON Embedded Partial Discharge (PD) Sensor Product Overview
 - 10.7.3 OMICRON Embedded Partial Discharge (PD) Sensor Product Market Performance
 - 10.7.4 OMICRON Business Overview
 - 10.7.5 OMICRON Recent Developments
- 10.8 Doble Engineering Company
 - 10.8.1 Doble Engineering Company Basic Information
 - 10.8.2 Doble Engineering Company Embedded Partial Discharge (PD) Sensor Product Overview

10.8.3 Doble Engineering Company Embedded Partial Discharge (PD) Sensor Product Market Performance

10.8.4 Doble Engineering Company Business Overview

10.8.5 Doble Engineering Company Recent Developments

10.9 IPEC Ltd

10.9.1 IPEC Ltd Basic Information

10.9.2 IPEC Ltd Embedded Partial Discharge (PD) Sensor Product Overview

10.9.3 IPEC Ltd Embedded Partial Discharge (PD) Sensor Product Market

Performance

10.9.4 IPEC Ltd Business Overview

10.9.5 IPEC Ltd Recent Developments

10.10 IRIS Power LP

10.10.1 IRIS Power LP Basic Information

10.10.2 IRIS Power LP Embedded Partial Discharge (PD) Sensor Product Overview

10.10.3 IRIS Power LP Embedded Partial Discharge (PD) Sensor Product Market

Performance

10.10.4 IRIS Power LP Business Overview

10.10.5 IRIS Power LP Recent Developments

10.11 Quartzteq

10.11.1 Quartzteq Basic Information

10.11.2 Quartzteq Embedded Partial Discharge (PD) Sensor Product Overview

10.11.3 Quartzteq Embedded Partial Discharge (PD) Sensor Product Market

Performance

10.11.4 Quartzteq Business Overview

10.11.5 Quartzteq Recent Developments

10.12 Chengdu Wilson Technology

10.12.1 Chengdu Wilson Technology Basic Information

10.12.2 Chengdu Wilson Technology Embedded Partial Discharge (PD) Sensor

Product Overview

10.12.3 Chengdu Wilson Technology Embedded Partial Discharge (PD) Sensor

Product Market Performance

10.12.4 Chengdu Wilson Technology Business Overview

10.12.5 Chengdu Wilson Technology Recent Developments

11 EMBEDDED PARTIAL DISCHARGE (PD) SENSOR MARKET FORECAST BY REGION

11.1 Global Embedded Partial Discharge (PD) Sensor Market Size Forecast

11.2 Global Embedded Partial Discharge (PD) Sensor Market Forecast by Region

- 11.2.1 North America Market Size Forecast by Country
- 11.2.2 Europe Embedded Partial Discharge (PD) Sensor Market Size Forecast by Country
- 11.2.3 Asia Pacific Embedded Partial Discharge (PD) Sensor Market Size Forecast by Region
- 11.2.4 South America Embedded Partial Discharge (PD) Sensor Market Size Forecast by Country
- 11.2.5 Middle East and Africa Forecasted Sales of Embedded Partial Discharge (PD) Sensor by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Embedded Partial Discharge (PD) Sensor Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Embedded Partial Discharge (PD) Sensor by Type (2026-2035)
 - 12.1.2 Global Embedded Partial Discharge (PD) Sensor Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Embedded Partial Discharge (PD) Sensor by Type (2026-2035)
- 12.2 Global Embedded Partial Discharge (PD) Sensor Market Forecast by Application (2026-2035)
 - 12.2.1 Global Embedded Partial Discharge (PD) Sensor Sales (K Units) Forecast by Application
 - 12.2.2 Global Embedded Partial Discharge (PD) Sensor Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Embedded Partial Discharge (PD) Sensor Market Size by Type (M USD)

Table 4. Global Embedded Partial Discharge (PD) Sensor Market Size by Application

Table 5. Embedded Partial Discharge (PD) Sensor Market Size Comparison by Region (M USD)

Table 6. Global Embedded Partial Discharge (PD) Sensor Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Embedded Partial Discharge (PD) Sensor Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Embedded Partial Discharge (PD) Sensor Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Embedded Partial Discharge (PD) Sensor Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Embedded Partial Discharge (PD) Sensor as of 2025)

Table 11. Global Market Embedded Partial Discharge (PD) Sensor Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Embedded Partial Discharge (PD) Sensor Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Embedded Partial Discharge (PD) Sensor Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Embedded Partial Discharge (PD) Sensor Sales by Type (K Units)

Table 27. Global Embedded Partial Discharge (PD) Sensor Market Size by Type (M USD)

Table 28. Global Embedded Partial Discharge (PD) Sensor Sales (K Units) by Type (2020-2025)

Table 29. Global Embedded Partial Discharge (PD) Sensor Sales Market Share by Type (2020-2025)

Table 30. Global Embedded Partial Discharge (PD) Sensor Market Size (M USD) by Type (2020-2025)

Table 31. Global Embedded Partial Discharge (PD) Sensor Market Share by Type (2020-2025)

Table 32. Global Embedded Partial Discharge (PD) Sensor Price (USD/Unit) by Type (2020-2025)

Table 33. Global Embedded Partial Discharge (PD) Sensor Sales (K Units) by Application

Table 34. Global Embedded Partial Discharge (PD) Sensor Market Size by Application

Table 35. Global Embedded Partial Discharge (PD) Sensor Sales by Application (2020-2025) & (K Units)

Table 36. Global Embedded Partial Discharge (PD) Sensor Sales Market Share by Application (2020-2025)

Table 37. Global Embedded Partial Discharge (PD) Sensor Market Size by Application (2020-2025) & (M USD)

Table 38. Global Embedded Partial Discharge (PD) Sensor Market Share by Application (2020-2025)

Table 39. Global Embedded Partial Discharge (PD) Sensor Sales Growth Rate by Application (2020-2025)

Table 40. Global Embedded Partial Discharge (PD) Sensor Sales by Region (2020-2025) & (K Units)

Table 41. Global Embedded Partial Discharge (PD) Sensor Sales Market Share by Region (2020-2025)

Table 42. Global Embedded Partial Discharge (PD) Sensor Market Size by Region (2020-2025) & (M USD)

Table 43. Global Embedded Partial Discharge (PD) Sensor Market Size by Region (2020-2025)

Table 44. North America Embedded Partial Discharge (PD) Sensor Sales by Country (2020-2025) & (K Units)

Table 45. North America Embedded Partial Discharge (PD) Sensor Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Embedded Partial Discharge (PD) Sensor Sales by Country

(2020-2025) & (K Units)

Table 47. Europe Embedded Partial Discharge (PD) Sensor Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Embedded Partial Discharge (PD) Sensor Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Embedded Partial Discharge (PD) Sensor Market Size by Region (2020-2025) & (M USD)

Table 50. South America Embedded Partial Discharge (PD) Sensor Sales by Country (2020-2025) & (K Units)

Table 51. South America Embedded Partial Discharge (PD) Sensor Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Embedded Partial Discharge (PD) Sensor Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Embedded Partial Discharge (PD) Sensor Market Size by Region (2020-2025) & (M USD)

Table 54. Global Embedded Partial Discharge (PD) Sensor Production (K Units) by Region(2020-2025)

Table 55. Global Embedded Partial Discharge (PD) Sensor Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Embedded Partial Discharge (PD) Sensor Revenue Market Share by Region (2020-2025)

Table 57. Global Embedded Partial Discharge (PD) Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Embedded Partial Discharge (PD) Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Embedded Partial Discharge (PD) Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Embedded Partial Discharge (PD) Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Embedded Partial Discharge (PD) Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Rugged Monitoring Company Basic Information

Table 63. Rugged Monitoring Company Embedded Partial Discharge (PD) Sensor Product Overview

Table 64. Rugged Monitoring Company Embedded Partial Discharge (PD) Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Rugged Monitoring Company Business Overview

Table 66. Rugged Monitoring Company SWOT Analysis

Table 67. Rugged Monitoring Company Recent Developments

- Table 68. Qualitrol Basic Information
- Table 69. Qualitrol Embedded Partial Discharge (PD) Sensor Product Overview
- Table 70. Qualitrol Embedded Partial Discharge (PD) Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 71. Qualitrol Business Overview
- Table 72. Qualitrol SWOT Analysis
- Table 73. Qualitrol Recent Developments
- Table 74. HVPD Basic Information
- Table 75. HVPD Embedded Partial Discharge (PD) Sensor Product Overview
- Table 76. HVPD Embedded Partial Discharge (PD) Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. HVPD Business Overview
- Table 78. HVPD SWOT Analysis
- Table 79. HVPD Recent Developments
- Table 80. Sparks Instruments Basic Information
- Table 81. Sparks Instruments Embedded Partial Discharge (PD) Sensor Product Overview
- Table 82. Sparks Instruments Embedded Partial Discharge (PD) Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Sparks Instruments Business Overview
- Table 84. Sparks Instruments Recent Developments
- Table 85. Dynamic Ratings Basic Information
- Table 86. Dynamic Ratings Embedded Partial Discharge (PD) Sensor Product Overview
- Table 87. Dynamic Ratings Embedded Partial Discharge (PD) Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Dynamic Ratings Business Overview
- Table 89. Dynamic Ratings Recent Developments
- Table 90. Power Diagnostix Systems Basic Information
- Table 91. Power Diagnostix Systems Embedded Partial Discharge (PD) Sensor Product Overview
- Table 92. Power Diagnostix Systems Embedded Partial Discharge (PD) Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Power Diagnostix Systems Business Overview
- Table 94. Power Diagnostix Systems Recent Developments
- Table 95. OMICRON Basic Information
- Table 96. OMICRON Embedded Partial Discharge (PD) Sensor Product Overview
- Table 97. OMICRON Embedded Partial Discharge (PD) Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. OMICRON Business Overview

- Table 99. OMICRON Recent Developments
- Table 100. Doble Engineering Company Basic Information
- Table 101. Doble Engineering Company Embedded Partial Discharge (PD) Sensor Product Overview
- Table 102. Doble Engineering Company Embedded Partial Discharge (PD) Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. Doble Engineering Company Business Overview
- Table 104. Doble Engineering Company Recent Developments
- Table 105. IPEC Ltd Basic Information
- Table 106. IPEC Ltd Embedded Partial Discharge (PD) Sensor Product Overview
- Table 107. IPEC Ltd Embedded Partial Discharge (PD) Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. IPEC Ltd Business Overview
- Table 109. IPEC Ltd Recent Developments
- Table 110. IRIS Power LP Basic Information
- Table 111. IRIS Power LP Embedded Partial Discharge (PD) Sensor Product Overview
- Table 112. IRIS Power LP Embedded Partial Discharge (PD) Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. IRIS Power LP Business Overview
- Table 114. IRIS Power LP Recent Developments
- Table 115. Quartzteq Basic Information
- Table 116. Quartzteq Embedded Partial Discharge (PD) Sensor Product Overview
- Table 117. Quartzteq Embedded Partial Discharge (PD) Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Quartzteq Business Overview
- Table 119. Quartzteq Recent Developments
- Table 120. Chengdu Wilson Technology Basic Information
- Table 121. Chengdu Wilson Technology Embedded Partial Discharge (PD) Sensor Product Overview
- Table 122. Chengdu Wilson Technology Embedded Partial Discharge (PD) Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. Chengdu Wilson Technology Business Overview
- Table 124. Chengdu Wilson Technology Recent Developments
- Table 125. Global Embedded Partial Discharge (PD) Sensor Sales Forecast by Region (2026-2035) & (K Units)
- Table 126. Global Embedded Partial Discharge (PD) Sensor Market Size Forecast by Region (2026-2035) & (M USD)
- Table 127. North America Embedded Partial Discharge (PD) Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 128. North America Embedded Partial Discharge (PD) Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 129. Europe Embedded Partial Discharge (PD) Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 130. Europe Embedded Partial Discharge (PD) Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 131. Asia Pacific Embedded Partial Discharge (PD) Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 132. Asia Pacific Embedded Partial Discharge (PD) Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 133. South America Embedded Partial Discharge (PD) Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 134. South America Embedded Partial Discharge (PD) Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 135. Middle East and Africa Embedded Partial Discharge (PD) Sensor Sales Forecast by Country (2026-2035) & (Units)

Table 136. Middle East and Africa Embedded Partial Discharge (PD) Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 137. Global Embedded Partial Discharge (PD) Sensor Sales Forecast by Type (2026-2035) & (K Units)

Table 138. Global Embedded Partial Discharge (PD) Sensor Market Size Forecast by Type (2026-2035) & (M USD)

Table 139. Global Embedded Partial Discharge (PD) Sensor Price Forecast by Type (2026-2035) & (USD/Unit)

Table 140. Global Embedded Partial Discharge (PD) Sensor Sales (K Units) Forecast by Application (2026-2035)

Table 141. Global Embedded Partial Discharge (PD) Sensor Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Embedded Partial Discharge (PD) Sensor
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Embedded Partial Discharge (PD) Sensor Market Size (M USD), 2025-2035
- Figure 5. Global Embedded Partial Discharge (PD) Sensor Market Size (M USD) (2020-2035)
- Figure 6. Global Embedded Partial Discharge (PD) Sensor Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Embedded Partial Discharge (PD) Sensor Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Embedded Partial Discharge (PD) Sensor Product Life Cycle
- Figure 13. Embedded Partial Discharge (PD) Sensor Sales Share by Manufacturers in 2025
- Figure 14. Global Embedded Partial Discharge (PD) Sensor Revenue Share by Manufacturers in 2025
- Figure 15. Embedded Partial Discharge (PD) Sensor Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Embedded Partial Discharge (PD) Sensor Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Embedded Partial Discharge (PD) Sensor Revenue in 2025
- Figure 18. Industry Chain Map of Embedded Partial Discharge (PD) Sensor
- Figure 19. Global Embedded Partial Discharge (PD) Sensor Market PEST Analysis
- Figure 20. Global Embedded Partial Discharge (PD) Sensor Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Embedded Partial Discharge (PD) Sensor Market Share by Type

Figure 27. Sales Market Share of Embedded Partial Discharge (PD) Sensor by Type (2020-2025)

Figure 28. Sales Market Share of Embedded Partial Discharge (PD) Sensor by Type in 2025

Figure 29. Market Share of Embedded Partial Discharge (PD) Sensor by Type (2020-2025)

Figure 30. Market Share of Embedded Partial Discharge (PD) Sensor by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Embedded Partial Discharge (PD) Sensor Market Share by Application

Figure 33. Global Embedded Partial Discharge (PD) Sensor Sales Market Share by Application (2020-2025)

Figure 34. Global Embedded Partial Discharge (PD) Sensor Sales Market Share by Application in 2025

Figure 35. Global Embedded Partial Discharge (PD) Sensor Market Share by Application (2020-2025)

Figure 36. Global Embedded Partial Discharge (PD) Sensor Market Share by Application in 2025

Figure 37. Global Embedded Partial Discharge (PD) Sensor Sales Growth Rate by Application (2020-2025)

Figure 38. Global Embedded Partial Discharge (PD) Sensor Sales Market Share by Region (2020-2025)

Figure 39. Global Embedded Partial Discharge (PD) Sensor Market Size by Region (2020-2025)

Figure 40. North America Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Embedded Partial Discharge (PD) Sensor Sales Market Share by Country in 2024

Figure 43. North America Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Embedded Partial Discharge (PD) Sensor Market Size by Country in 2024

Figure 45. U.S. Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Embedded Partial Discharge (PD) Sensor Sales (K Units) and

Growth Rate (2020-2025)

Figure 48. Canada Embedded Partial Discharge (PD) Sensor Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Embedded Partial Discharge (PD) Sensor Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Embedded Partial Discharge (PD) Sensor Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Embedded Partial Discharge (PD) Sensor Sales Market Share by Country in 2024

Figure 53. Europe Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Embedded Partial Discharge (PD) Sensor Market Size by Country in 2024

Figure 55. Germany Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Embedded Partial Discharge (PD) Sensor Sales Market Share by Region in 2024

Figure 67. Asia Pacific Embedded Partial Discharge (PD) Sensor Market Size by Region in 2024

Figure 68. China Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (K Units)

Figure 79. South America Embedded Partial Discharge (PD) Sensor Sales Market Share by Country in 2024

Figure 80. South America Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (M USD)

Figure 81. South America Embedded Partial Discharge (PD) Sensor Market Size by Country in 2024

Figure 82. Brazil Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Embedded Partial Discharge (PD) Sensor Sales and Growth Rate

(2020-2025) & (K Units)

Figure 87. Columbia Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Embedded Partial Discharge (PD) Sensor Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Embedded Partial Discharge (PD) Sensor Market Size by Region in 2024

Figure 92. Saudi Arabia Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Embedded Partial Discharge (PD) Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Embedded Partial Discharge (PD) Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Embedded Partial Discharge (PD) Sensor Production Market Share by Region (2020-2025)

Figure 103. North America Embedded Partial Discharge (PD) Sensor Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Embedded Partial Discharge (PD) Sensor Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Embedded Partial Discharge (PD) Sensor Production (K Units) Growth Rate (2020-2025)

Figure 106. China Embedded Partial Discharge (PD) Sensor Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Embedded Partial Discharge (PD) Sensor Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Embedded Partial Discharge (PD) Sensor Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Embedded Partial Discharge (PD) Sensor Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Embedded Partial Discharge (PD) Sensor Market Share Forecast by Type (2026-2035)

Figure 111. Global Embedded Partial Discharge (PD) Sensor Sales Forecast by Application (2026-2035)

Figure 112. Global Embedded Partial Discharge (PD) Sensor Market Share Forecast by Application (2026-2035)

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