

Global Embedded Partial Discharge (PD) Sensor Market Growth 2026-2032

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Abstracts

The global Embedded Partial Discharge (PD) Sensor market size is predicted to grow from US\$ 976 million in 2025 to US\$ 1593 million in 2032; it is expected to grow at a CAGR of 7.4% from 2026 to 2032.

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.

United States market for Embedded Partial Discharge (PD) Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Embedded Partial Discharge (PD) Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Embedded Partial Discharge (PD) Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Embedded Partial Discharge (PD) Sensor players cover Rugged Monitoring Company, Qualitrol, HVPD, Sparks Instruments, Dynamic Ratings, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Embedded Partial Discharge (PD) Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Embedded Partial Discharge (PD) Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Embedded Partial Discharge (PD) Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Embedded Partial Discharge (PD) Sensor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Embedded Partial Discharge (PD) Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Embedded Partial Discharge (PD) Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Pulse Current Method

Ultrasonic Method

Segmentation by Application:

Switchgears

Generators

Motors

Transformers

Power Cables

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Rugged Monitoring Company

Qualitrol

HVPD

Sparks Instruments

Dynamic Ratings

Power Diagnostix Systems

OMICRON

Doble Engineering Company

IPEC Ltd

IRIS Power LP

Quartztec

Chengdu Wilson Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Embedded Partial Discharge (PD) Sensor market?

What factors are driving Embedded Partial Discharge (PD) Sensor market growth, globally and by region?

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

How do Embedded Partial Discharge (PD) Sensor market opportunities vary by end market size?

How does Embedded Partial Discharge (PD) Sensor break out by Type, by Application?

The report requires updating with new data and is sent in 48 hours after order is placed.

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