Ampacimon

Unlocking Grid Potential

PDEye

GridLife®

Automatic PD Diagnostic Platform

WHAT IS PDEYE?

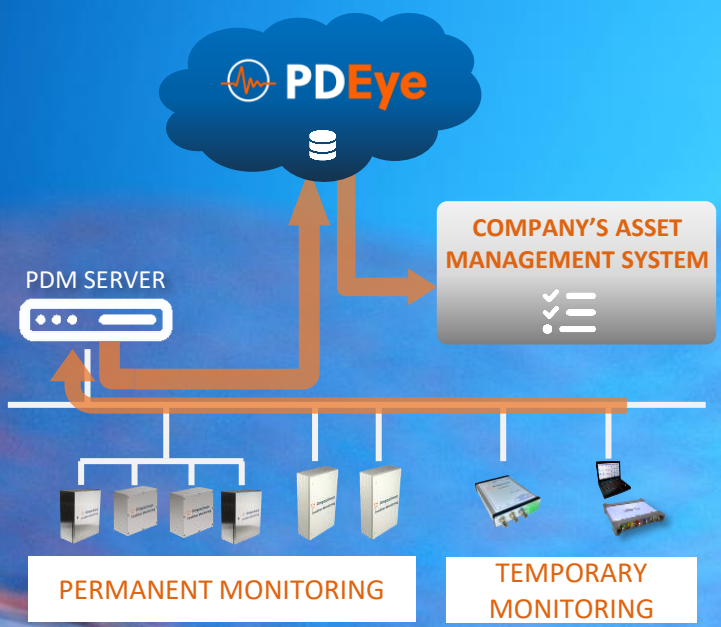
PDEye is an intelligent platform conceived to allow real time condition assessment of the different elements in the grid. Its artificial intelligence allows global monitoring of assets to identify PD defects and plan predictive maintenance strategies.

It has been developed with the major goal of being able to generate high reliable alarms from data received from thousands of PD sensors deployed in the grid. PDEye is able to identify, locate, and evaluate the PD defects of an installation sending real time warnings and recommended actions.

WHERE CAN PDEYE BE USED?

PDEye is the central monitoring platform for the different PD monitoring units installed in the grid. PDEye has been trained with thousands of real PD cases collected during the past 10 years in different types of assets and insulations (air, solid, oil and SF6).

PDEye platform can be installed on cloud or on premise and be connected to the asset management system enabling a total automated PD diagnosis across all the different elements of the grid (GIS, cable, transformer, AIS, switchgear, generator…).



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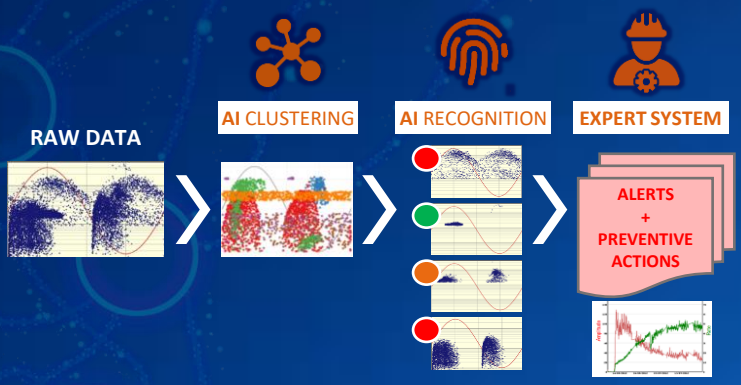
KEY FEATURES

AUTOMATIC LOCALIZATION AND EVALUATION OF PD DEFECTS

PDEye includes AI tools able to discriminate different types of defects by asset and classify them by criticality.

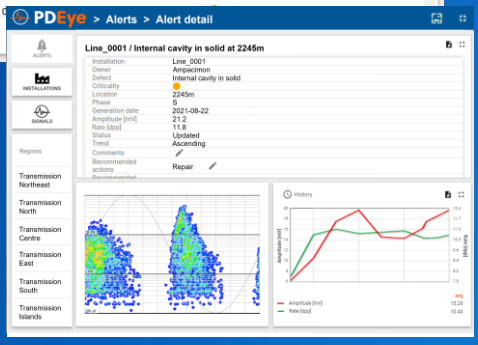


The platform centralizes PD events from vendor agnostic HW. By merging information from different sensors installed in the grid, PDEye permits not only to identify and evaluate the PD criticality but also reinforce the confidence of the alerts.

Based on the analysis of PD defect trends, PDEye generates alerts of emerging phenomena or escalating degradations. All these alerts are displayed on its HMI or can be integrated into the SCADA system.

FULLY CONFIGURABLE ALERT GENERATION

PDEye comes with a powerful HMI fully configurable. This permits the user to set alerts based on type of sensor, thresholds, affected asset, type of phenomenon, type of trend…. permitting a total customization to every use case. HMI provides basic information for each alert to realize quick analysis of defects.



Additionally, this information can be integrated in the asset management system enabling the optimization and planning of preventive actions.

BENEFITS OF USING PDEYE

Easy wide deployment → **I**mplement PD monitoring in ALL the assets with a common data analytics tool.
Gets a list of affected assets with follow up actions → Prioritize actions in the preventive maintenance plan.
Reduction on support costs → Expend time only when real defects in the insulation appear.
Increase life of assets and avoid unexpected failures → Detect incipient PD and follow trend to anticipate.

Ampacimon delivers integrated data-based solutions to grid operators to help them optimize their assets. Ampacimon's systems allow them to increase grids capacity, drastically improve their resilience and optimize their maintenance.

"We offer grid monitoring solutions combining powerful sensors and analytics to optimize electricity grids"

Ampacimon thus addresses some of the most pressing societal needs linked to climate change, by helping connect more renewable generation, optimize the use and protect the integrity of electricity grids.

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