



Partial discharge diagnostics on motors and generators with the MPD series



🕒 2 days

🌐 English

Cpdm04en

Get an introduction to the basics of partial discharge and to the setup for conventional and unconventional measurements. Learn how to make full use of its software tools for detecting, measuring and documenting partial discharge in primary assets.

Objectives

- > Gaining a better insight into the theory and origin of partial discharge
- > Understanding both conventional and unconventional measurement principles
- > Performing time-efficient measurements for comprehensive insulation diagnostics on different assets
- > Interpreting the measurement results to draw conclusions on the insulation for condition-based maintenance planning

Content

- > Basics, origin and different types of partial discharge
- > Theory about HV breakdown in different insulation systems
- > Measurements in time domain and frequency domain (FFT)
- > Conventional measurement methods as per IEC 60270:2013
- > Measurements with high-frequency current transformers (HFCT) and UHF range
- > Applicable standards for PD measurements on different assets
- > Offline and online measurement on different assets
- > Performing measurement using 3PARD and 3FREQ methods
- > Noise suppression techniques for handling of high interference levels (software & hardware approaches)
- > Assessment and interpretation of PD patterns for different assets
- > Practical measurement examples about calibration, 3PARD, 3FREQ on different assets
- > Analysing case studies of most common defects in different assets

Solutions

MPD 500/600 and accessories
OMS 605
MPD software with Basic and Advanced package

Audience

Technical staff involved in the planning or assessment of the condition monitoring of Generators and Motors

Prerequisites

Knowledge of electrical engineering