



PD diagnostics on motors and generators with the MPD series



2 days



English



Cpdm04en

Become familiar with the principles of partial discharges and how to measure them using the MPD 800 test device. Learn to assess the condition of the winding insulation at an early stage and to assess any aging of your generators or motors due to partial discharge. Learn about your testing equipment and deepen your knowledge through practical exercises.

Objectives

- ▶ Measurement of partial discharges on motors / generators with the MPD 800
- ▶ Assessment of the insulation condition of generators and motors using PD measurements
- ▶ Monitoring the quality of the production process through measurements on insulation components
- ▶ Applying PD measurements to the development and design of isolation components

Content

- ▶ Overview of the most common faults in stator and rotor windings
- ▶ Typical causes of insulation aging (thermal, electrical, ambient and mechanical)
- ▶ Introduction to the construction of stator windings of generators / motors
- ▶ Carrying out PD measurements according to IEC 60270 using practical exercises
- ▶ Learn about additional noise reduction techniques (Gating, 3PARD, 3FREQ)
- ▶ Classification of partial discharge types and determination of the risk for the test objects
- ▶ Getting to know the software of the MPD Suite software for time-efficient measurements
- ▶ Interpret PRPD patterns and detect common winding insulation PD faults
- ▶ Case study analysis of the most common stator winding failures

Solutions

MPD 800 and accessories
MPD Suite Software

Audience

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

Prerequisites

Knowledge of electrical engineering