




Sweep Frequency Response Analysis (SFRA) of power transformers with FRANEO 800



 1 day

 English

 Cptr04en

Learn how to perform reliable SFRA measurements on a power transformer using FRANEO 800. Get familiar with the OMICRON connection technique as well as the automated assessment tool and generate optimized reports.

Objectives

- > Preparing and performing SFRA measurements on power transformers
- > Applying the PTM software as support tool for the entire measurement process
- > Making use of the innovative connection technique and avoid potential measurement errors
- > Detecting winding deformation from measurement traces
- > Assessing SFRA measurement traces using three different methods

Content

- > Sources of winding deformation
- > Basics and theory to understand the SFRA measurement method
- > Comparisons of the SFRA method with conventional electrical measurements
- > Influences on the reproducibility of an SFRA measurement trace
- > Applying the reliable connection method for the highest level of comparability of measurements
- > Using the PTM software by practical measurements on OMICRON's own power transformer
- > Assessment and analysis of measurement results
- > Creating test reports for measurement documentation

Solutions

PTM (Primary Test Manager) software
FRANEO 800
Measurement standards (IEC 60076-18, IEEE Std. C57.149TM, CIGRE FRA brochure AG2.26)
Assessment standards (DLT 911-2004)

Audience

Technical staff from electric utilities or companies involved in diagnosis, service and maintenance of power transformers

Prerequisites

Knowledge of electrical engineering