Interpretation of Dielectric Response Analysis for Moisture Determination on Oil Filled Transformers

Solutions: DIRANA, PTM

Summary: Learn how to use DIRANA and the PTM software to perform dielectric response measurements in FDS and PDC+ mode to determine the water content of power transformers.

Prerequisites: Knowledge of electrical engineering

Duration: 1 hour | Language: English | Code: W.0096.AAA

Objectives

> Preparation of a dielectric response measurement on a power transformer using DIRANA (how to connect and how to configure the software)
> FDS and PDC+ mode
> Perform measurement and analysis of the results
> Do the interpretation of the dielectric response curves
> Determine the water content

Content

> Sources of water in transformers
> Methods of water determination
> Measurement of the dielectric response of power transformers
> Analysis of dielectric response curves
> Case studies

Solutions

> DIRANA test set
> PTM (Primary Test Manager) software

Audience

Technical staff involved in transformer testing in utilities, service companies, transformer manufacturers or repair shops