



Power transformer diagnostics with CPX 200

 2 days

 English

 Cptr09en

Learn how our multifunctional CPX 200 test device makes commissioning, maintenance, and condition assessment of power transformers easier, faster, and safer. Familiarize yourself with simplified tests, precise measurements, and guided workflows for evaluating power transformers condition according to international standards.

Objectives

- ▶ Perform commissioning, troubleshooting and periodic tests of Power transformers winding and insulation system
- ▶ Intuitive generation of asset-specific test plans, including wiring diagrams
- ▶ Automatic evaluation of results: automated assessments in accordance with industry standards
- ▶ Straightforward reporting and automatic test data synchronization and manage all data on one platform

Content

- ▶ Negative influences on the expected lifetime of a power transformer
- ▶ Overview of frequent defects in transformer components and their fault patterns
- ▶ Construction of the transformer insulation, the bushings and the tap-changer
- ▶ Common conventional measurement methods such as Turns ratio, Winding resistance, Short-circuit impedance and Demagnetization of the power transformer
- ▶ Measure Capacity and dissipation/power factor measurements of winding and bushing insulation
- ▶ Evaluation of the measurement results by means of practical examples
- ▶ Assessment of diagnostic measurements and recognize possible defects and influences
- ▶ Analyzing case studies of most common defects on various power transformers

Solutions

CPX 200
HVX10
CPXpert software
CORTEX Grid

Audience

Technical staff involved in transformer testing in utilities, transmission, distribution and generation networks, railway grids, service companies and manufacturers.

Prerequisites

Knowledge of electrical engineering