Instrument transformer (CT/VT) diagnostics with CPX 200

1 day | **English** | **Citr06en**

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

Objectives

- Perform commissioning, troubleshooting and periodic tests of CTs and VTs
- 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

- Function of instrument transformers and overview of different CT and VT types (MV, HV)
- Importance of the individual electrical test procedures for condition assessment of CTs and VTs
- Overview of the two testing approaches on and around current transformers primary feed vs. secondary feed
- Common safety measures required for safe and reliable CT and VT testing
- Measure CTs Ratio, CT Excitation, CT Winding Resistance, Burden and Polarity check with CPX 200
- Measure VTs Ratio, VT Burden and Polarity with CPX 200 and HVX10
- Practical examples for time-efficient instrument transformer tests with CPX 200 TouchControl and CPXpert

Solutions

CPX 200
HVX10
CPXpert software
CORTEX Grid

Audience

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

Prerequisites

Knowledge of electrical engineering