



TAP-4

On-Load Tap Changer Analyzer

An on-load tap changer (OLTC) adjusts the voltage ratio of an in-service transformer. It is the most highly solicited component in a transformer and the origin of 40% of transformer failures.

Developed by Hydro-Québec and marketed under licence by Zensol, the TAP-4 analyzer measures acoustic vibrations to detect most OLTC operating problems.

In-service measurement

The TAP-4 analyzer can detect most OLTC operating problems: contact wear, selector and diverter switch arcing, drive and timing problems, brake failures, etc. TAP-4 can also be used to determine which transformers in a fleet require a full inspection.

The analyzer uses up to three accelerometers and a current sensor. Its 100 kHz sampling frequency enables it to catch a wide range of mechanical and electrical problems.

With its specialized user-friendly software, TAP-4 records and analyzes OLTC operation. Its special calculation and graphic analysis features enable the user to compare the results from various tests with benchmarks.

Key advantages

- > Quick measurements
- > Easily installed accelerometers
- > Robust, light and portable
- > Compatible with any type of transformer having a tap changer
- > Suited for high-voltage environments
- > Easy detection of OLTC mechanical problems

Specifications

Three inputs for IEPE accelerometers (measurement scale: $\pm 5\text{V}$)
One input for a current sensor ($\pm 100\text{A}$)
Sampling frequency: 100 kHz
Recording time: Unlimited
Data acquisition: A/D converter with 16-bit resolution

For information:

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