

Reptame Equipment Inc

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## TAP-4

### On-Load Tap Changer Analyzer



Zensol introduces a new instrument, the **TAP-4** totally dedicated to Acoustic Vibrations measurements on On-Load Tap Changers.

Faults associated to On-Load Tap Changers are at the origin of up to 40% of the transformer failures.

This new instrument allows the maintenance crew to detect most of common OLTC malfunctions as contact wear, arcing in diverter, arcing in selector, synchronism problem, drive mechanism problem, brake failure etc...

The Tap-4 is used in conjunction with accelerometers (3 maximum) and a current



sensor clamp. Its High Sampling Frequency of at least 100 kHz allows to record a large variety of mechanical and arcing problems.

The Tap-4 comes with powerful and user-friendly software CBV WIN Tap to record and analyze the OLTC events.

It integrates many calculation and graphic functions to be able to build tests references and tests recordings for comparison analysis.

#### Main advantages

- Testing time is short because the transformer is On-Line
- Easy installation of accelerometers and current sensors
- Could be used as a diagnostic tool to select through a large number of transformers which ones will be candidates for a complete inspection
- Easy detection of mechanical OLTC problems
- Robust, Light and Portable
- For use in High Voltage environment
- Can be used on any type of transformers

#### Technical features

- 3 Accelerometers inputs:
  - Accelerometer sensor type: ICP
  - Sensitivity: 100 mV/g
  - Measurement range: +/- 50 g
  - Frequency range: 5 to 15000 Hz
  - Constant current excitation 2 to 20 mA
- 1 current input
- Sampling frequency: 100 kHz
- Sampling time: 10  $\mu$ s
- Recording time: unlimited
- Data Acquisition system with 16 bit resolution for A/D conversion

#### Options

- Calibration tools
- Accelerometers
- BNC to accelerometer cables (3')
- BNC-BNC cables (10' to 50')
- Carrying cases

#### Accessories included with the instrument

- CBV WIN Tap software
- USB to fiber optic module
- Manual
- 1 day training at Zensol's premises (travel expenses of the attendees not included).