

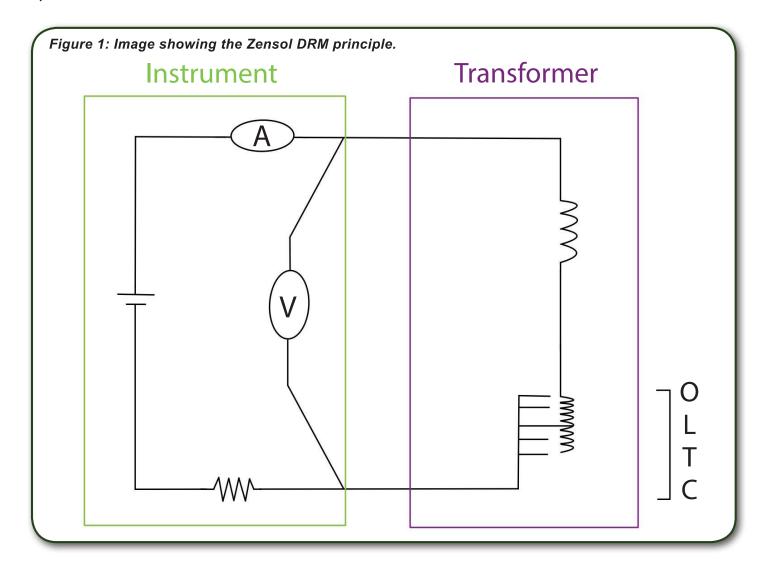
## Zensol new instrument for OLTC testing

ccording to CIGRE A2.34, the dynamic resistance measurement or DRM (OFFLINE) is a test that offers diagnostics for several diverter or selector switch malfunctions such as: contact problems, broken springs, broken transition resistors, poor contact pressure, inadequate transition time, momentary open circuit, and synchronism motion issues.

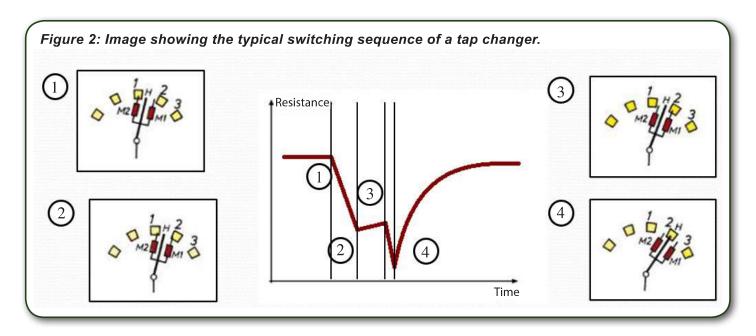
## ZENSOL'S DRM PRINCIPLE

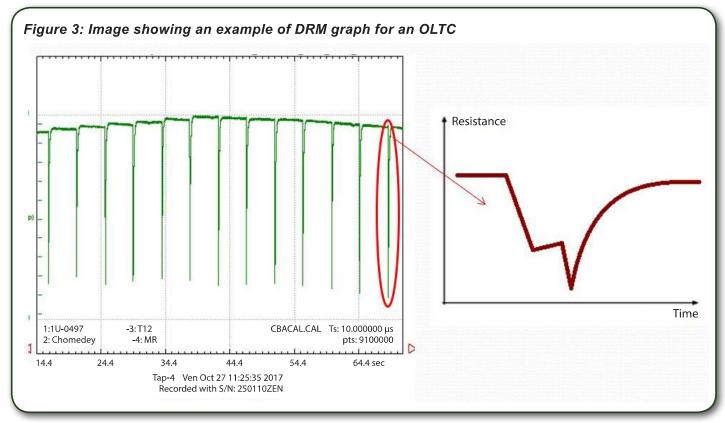
Tap windings are powered with a DC voltage source. The current fluctuations are recorded during the switching process. The schematic below shows the principle of the dynamic resistance measurement.

"The TAP-4-PLUS with TAP-DRM accessory can perform dynamic resistance, vibration recordings, and motor current at the same time."

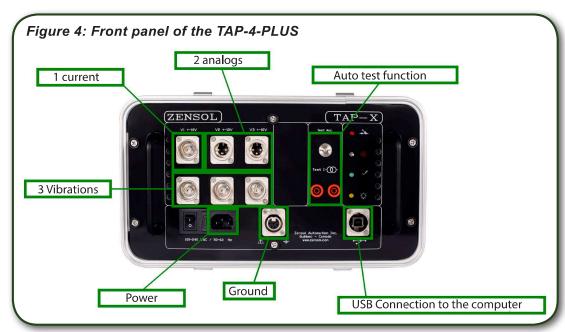


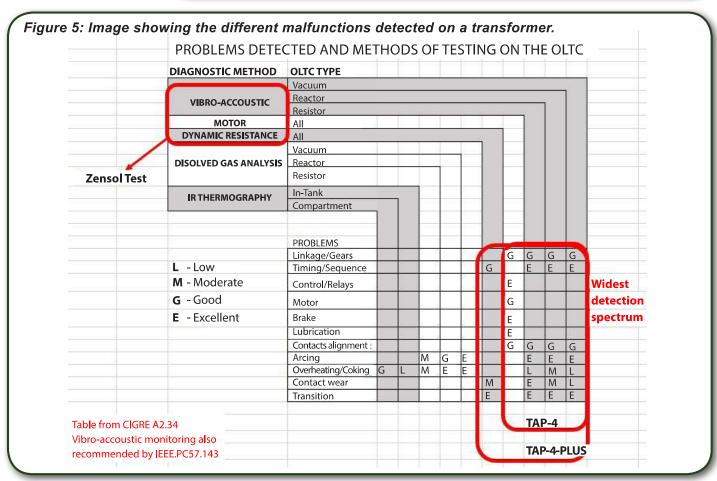
Like the TAP-4, the TAP-4-PLUS can test all types of OLTC: resistor, reactor, or vacuum, of any brands (Maschinenfabrik Reinhausen (MR), ABB, Federal Pioneer, Ferranti, etc.).





The TAP-4-PLUS is the newest instrument by Zensol for OLTC testing. The TAP-4-PLUS with TAP-DRM accessory can perform dynamic resistance, vibration recordings, and motor current at the same time. Thus, this will benefit easy timing correlation between motor current, vibration, and DRM.





For more information, visit our Sharing knowledge page on OLTC <a href="https://www.zensol.com/general-articles-about-oltc-testing-tap-changer-testing/">https://www.zensol.com/general-articles-about-oltc-testing-tap-changer-testing/</a> and read the article: "The vibro-acoustic method as fast diagnostic tool on load tap changers through the simultaneous analysis of vibration, dynamic resistance and high speed camera

recordings" (<a href="https://www.zensol.com/general-articles-about-oltc-testing-tap-changer-testing/#section5">https://www.zensol.com/general-articles-about-oltc-testing-tap-changer-testing/#section5</a>)

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## ZENSOL TAP-4-PLUS

The newest instrument for OLTC testing



Correlate dynamic resistance (DRM), vibration and motor current recordings