IDAX300 and IDAX350

INSULATION DIAGNOSTIC ANALYSERS

Rating: Not Rated Yet
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ManufacturerMegger

Description

- State-of-the-art measurement of moisture content, tan delta/power factor, and oil conductivity using DFR (Dielectric Frequency Response)
- Dedicated test procedures for power transformers, bushings, and current transformers
- Automated individual temperature correction (ITC) for accurate comparison with reference data/tests
- Reliable measurements even in high interference environments
- Fastest system on the market due to its novel and reliable combination of frequency and time domain measurement data

The IDAX300 and IDAX350 insulation diagnostic analysers are insulation diagnostic instruments based on DFR (Dielectric Frequency Response), also known as FDS (Frequency Domain Spectroscopy). DFR is a measurement technique in which capacitance and losses (dissipation factor/tan delta or power factor) is measured over multiple frequencies to assess insulation condition in test objects such as power transformers, bushings, and instrument transformers. DFR technology is an established test procedure in laboratories that Megger has adapted for field use in the IDAX range of instruments.

This IDAX series consists of:

- **IDAX300:** A compact and light three-channel input (red, blue, and ground), three-terminal (generator, measure, and guard) and one ammeter instrument for use with an external computer that runs the IDAX diagnostic software.
- **IDAX300/S:** Like the IDAX300, but with two ammeters for two simultaneous measurements.
- **IDAX350:** Like the IDAX300/S, but housed in a rugged and waterproof case together with an on-board computer that can also be used to control other Megger instruments.

For extended applications, the IDAX interfaces seamlessly with the VAX020 high voltage amplifier for 2 kV.

In these instruments, the IDAX software incorporates a new ITC corrected frequency sweep specifically designed for assessment of instrument transformers and bushings. Thanks to a novel approach to the combination of time and frequency domain data, the IDAX provides the shortest measurement time in the marketplace for a full DFR measurement from 1 kHz to 10 ?Hz. Separate reference models are fitted to each data set (time or frequency) prior to transformation and combination, which eliminates the risk of artifacts introduced by approximations or transformation of incomplete data sets.

The IDAX is exceedingly easy to use with an automated test flow and presentation of results in an easy to understand 'traffic light' colours. The IDAX DFR method is now part of international guides and standards e.g., Cigre TB 254, Cigre TB 414, Cigre TB 445, Cigre TB 775, IEEE C57.152-2013, IEEE C57.161-2018.