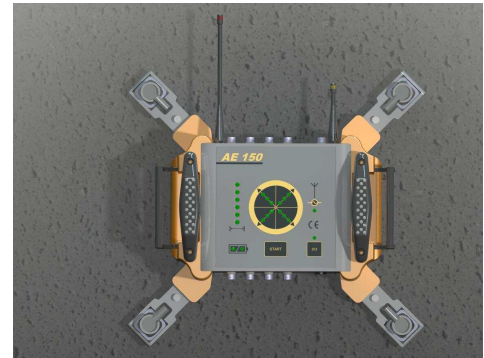




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AE-150

Portable Partial Discharge Detection and Localization System for Power Transformers

The AE-150 is used to detect and locate faults in power transformers.

Application and operation

Power transformers are critical to Transmission and Distribution substations. In fact, losing a unit can have a big financial consequence. To protect your investment, use Acoustic Emission Testing. This technique is superior to electric methods for on-site tests.

The AE-150 detects and locates faults in power transformers. This is done by analyzing ultrasonic waves produced by a breakdown of the electric isolation. The ultrasonic waves travel through the oil and strike the metallic shell of the transformer, providing to the AE-150 the signal needed to locate the problem.

The instrument is placed on the metallic surface with the aid of the magnetic attachment system. This system provides an easy way to move the AE-150 to survey the entire transformer. The remote user interface and the RF communication system make it possible to operate the unit safely even in the most hostile environments. detect

Use the AE-150 as a continuous monitoring tool to detect transitory problems. The AE-150 is a superior alternative to the chemical analysis of oil from power transformers. It provides real-time analysis packaged in an easy-to-use-, cost effective solution.

Software

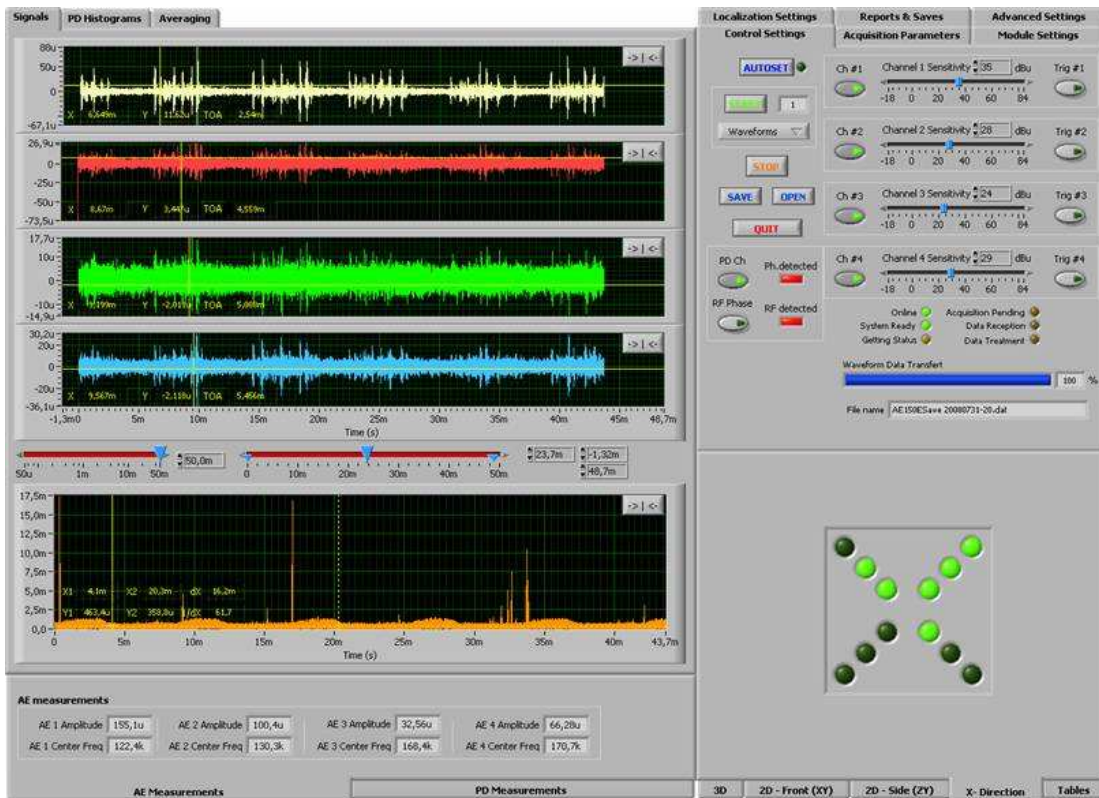
The user interface uses five (5) modules each having a specific function. The modules from top to bottom are: main ultrasonic waveform graph, the control panel, partial discharge/phase display, 2D/3D position graph and measurement table.

Advantages

- Portable unit
- Very easy to install
- Monitoring capability
- Simultaneous processing of AE and PD signals
- Rain proof
- Cable free
 - Wireless communication with PC and phase reference
 - Battery operation
 - Local Display



Software



Product description

- 4 Acoustic Emission Sensors to detect PD (mounted in a rectangular shape on the main unit on flexible arms for tank shape adjustment)
- 1 Synchronisation Channel to filter out external random noise
- 1 conventional PD measurement channel (HFCT)
- Magnetic mounted on the tank
- Local display with PD signal intensity and localization indication
- Wireless communication for phase synchronisation
- Wireless communication with PC
- 2 integrated circuit boards to process millions of acoustic emission signals per second
- Ultra fast numeric processor for simultaneous channels processing