

AE-150™

Partial Discharge Localization

The AE-150™ was designed to perform partial discharge localization inside oil-filled transformers, following a dissolved gas analysis (DGA) revealing abnormal conditions. The AE-150™ is recognized around the world for its ease of use, comprehensible software, and efficiency.

Highlights

- Reduces Downtime & Repair Delays
- 3D Positioning of PD Activity
- Auto-Vectoring and Pinpointing
- Quick Localization & Monitoring Modes
- Comprehensible Mirador-TX™ Software
- No need to de-energize the transformer
- Wireless Sync & Communication
- Standard and Impulse sensors available

Free interactive presentation:



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sales@ndbtech.com



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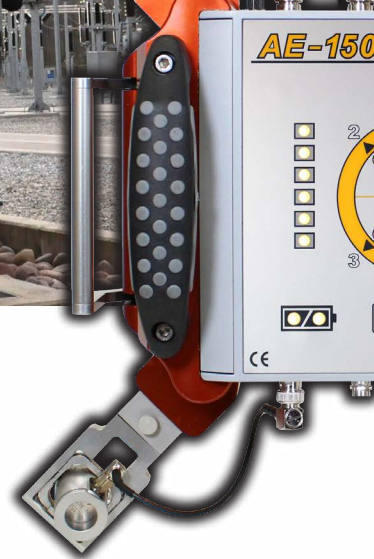
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Technologies



Unmatched Effectiveness and Ease of Use

- The AE-150™ is perfectly suited for field (weatherproof) and lab operation
- 20+ years experience in partial discharge detection and analysis
- **Buy with confidence.** Training and support is included and provided by ndb Tech's skilled experts who performed hundreds of successful localizations on faulty power transformers



General Technical Specs

Dimensions / Weight	40 x 37 x 14 cm / 5.4 kg
Battery autonomy	More than 8 hours
DC in voltage	12 to 15V, 5.2A
Operating Temperature Charging	0°C to 40°C (-4°F to 32°F)
Operating Temperature Not Charging	-20°C to 55°C (-4°F to 133°F)
Storage Temperature	-20°C to 55°C (-4°F to 133°F)
IP Rating	Designed to meet IP66

Acoustic Technical Specs

Number of channels	4
Bandwidth	35 kHz to 300 kHz
Sampling frequency	3 MHz
Optional filtering	High-pass 6th order at 100kHz
Amplitude resolution	12 bits
Dynamic range	120 dB
Input range	500 mVpp max
Sensitivity	6 μ V

Electric Technical Specs

Number of channels	1
Bandwidth	5 MHz to 300 MHz
Sampling frequency	48 MHz
Input range	1 VRMS
Sensitivity	100 μ Vrms
Dynamic range	80 dB



AE-150™ PD Localization Module

Built from high quality and durable materials, the AE-150™ main module combines portability (built-in NiMH battery) and ease of use with its versatile connection interface. Its strong magnets and handle mechanism allows for easy installation which is particularly useful when performing PD localization on large power transformers where multi-positioning is required.

HFCT-60HD Sensor



Drain Valve UHF Antenna



Electric Signal Sensors

The AE-150™ instrument is able to measure electric type PD activity using one of the following innovative solutions. The HFCT-60HD™ sensor allows for quick installation on ground return cables or ground straps while staying free from undesirable ambient electric noise, thanks to its shielded design and filtration circuits. For even higher sensitivity, the UHF Antenna provides measurements from inside of the power transformer tank, while staying solidly fixed in its custom designed flange.



Test Report Generation

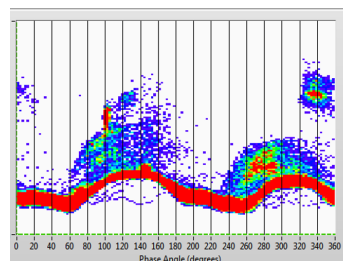
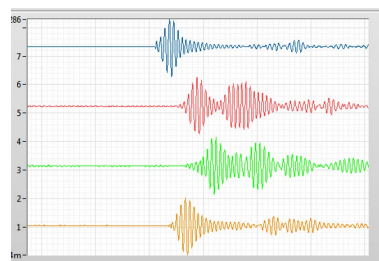
Mirador-TX™ software allows for detailed test reports with annotations, test parameters, power transformer properties, PrPDs, graphs and PD localization coordinates.

Rugged Case

The AE-150™ system includes a rugged hard shell case with foamy inserts, standard handles, a retractable extension handle and carrying wheels.

Clever Solutions

Too many fans, radiators or reinforcement bars are too close? Simply remove the acoustic sensors to fit your placement needs. Optional wireless communication module allows for the operator to stay away from the transformer tank.



Powerful Algorithms

Mirador-TX™ software provide power and user-oriented features such as impressive denoising and averaging, acoustic and electric signal type measurement auto-functions, detailed PrPDs and most of all, 3D localization graph with crossing vectors and pinpoint markers. Time is running out and PD didn't occur that day? Don't worry. Simply enable the all new monitoring feature for extended use without the need for an operator presence. It's that easy.

