

Acoustic Partial Discharge Analyzer

ACOUSTIC PARTIAL DISCHARGE ANALYZER (AR700)



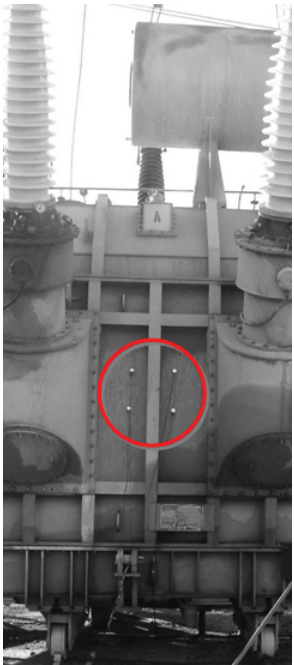
The AR-700 is an online Partial Discharge (PD) system, which will detect and analyze PD that may occur in large power transformers. It can be used in a portable mode or as a continuous monitor.

The AR-700 has four acoustic PD inputs and one electrical PD input. Combining the use of acoustical and electrical detection allows not only for a detection and location of insulation problems but also to quantify severity of the problem.

The use of acoustics provides two key advantages.

1. Use of acoustical PD detection in high voltage substations where there may be a very high level of electromagnetic noise caused by aerial corona discharges. These discharges are external to the transformer. Acoustic sensors are immune to these electromagnetic noises.
2. Acoustic detection can be used for walk in tests on equipment that does not have pre-installed PD sensors. A sensor can be installed on enclosures of oil filled or SF6 equipment or cable splices without taking equipment out of service by just providing good acoustical contact between the sensor and grounded enclosure.

PD information can be viewed on the graphic display and/or stored in the device memory. The AR-700 allows for automated discharge localization or one can use it in manual mode. The software provided with the AR700 allows you to download and store information on a PC and perform data analysis and presentation.



Technical Specifications

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| PD inputs acoustic + electrical | 4 + 1 |
| Frequency band, kHz | 50 - 300 |
| Dynamic range of PD channels, dB | 70 |
| Data memory, MB | 64 |
| User Interfaces | RS-232, USB |
| Operation with fully charged battery, hours | 20 |
| Dimensions, mm | 220*170*80 |
| Operating temperature, C | -20 - +60 |