

AP EnerTec offers unmatched on-line partial discharge (PD) testing experience and leading technology to obtain reliable results. Our services are tailored to your situation to achieve the best and most cost effective solution. Since 1994, the on-line PD measurement method has been used for the insulation condition diagnosis for cables, transformers, machines, GIS and indoor switchboards to prevent insulation failure. Essential information for condition based maintenance is provided efficiently and accurately.

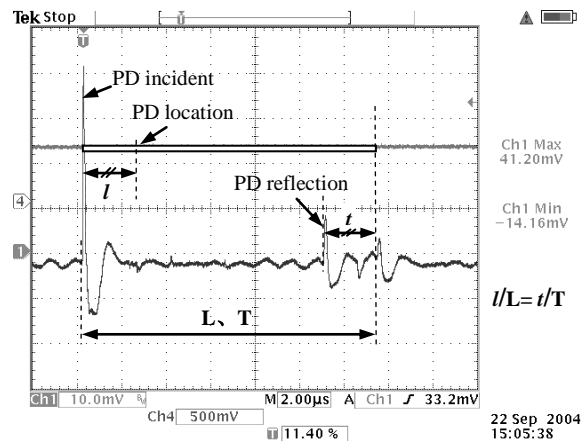
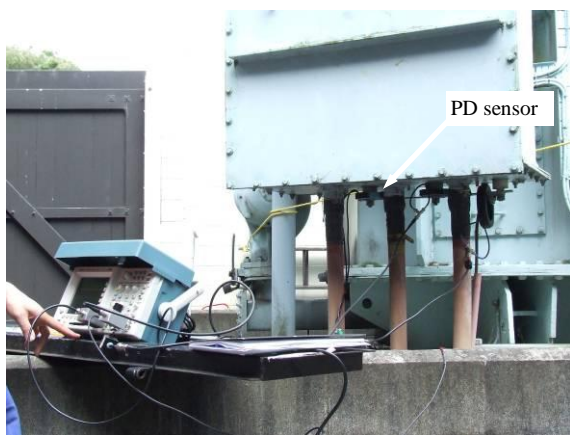
Advantages of “Acumen” portable on-line partial discharge test services:

1. Suitable for various HV equipment, cost-effectively detects insulation defects to prevent in-service failure.
2. Fast and non-invasive PD sensor attachment (no preinstalled PD sensors are required); suitable for many situations that regular PD equipment cannot be used for.
3. Test services are provided by experts with not only extensive experience in practical on-line PD tests but who are also published researchers of on-line PD measurement. Our combined expertise ensures the most accurate and reliable test results, even under difficult site conditions.

The technique can be used for (but is not limited to) the following HV equipment:

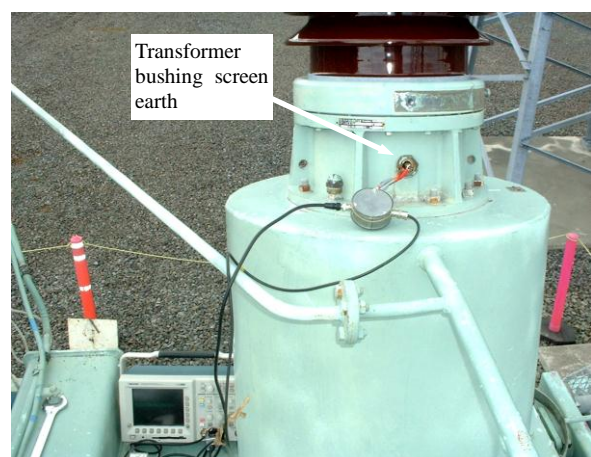
1. Cables

PD detection and location (further confirming if PD is in the cable or external noise).



2. Generators and motors

PD sensor attachment does not require taking the machine offline or opening the case. Tests are fast and cost-effective.



3. Transformers

PD sensor can be placed at bushing screen earth or cable termination.

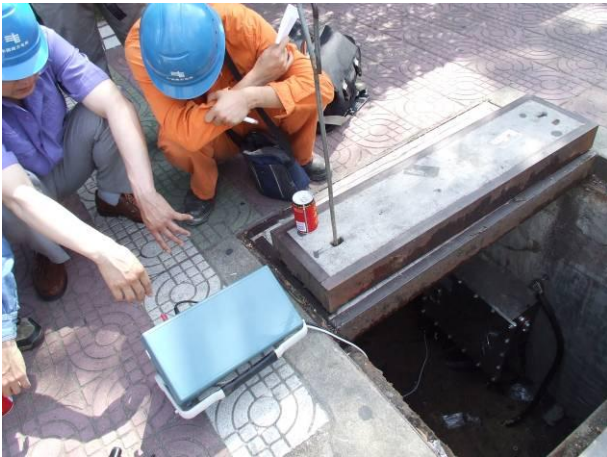
4. Indoor switchboard bus or GIS

PD sensor can be placed at cable termination.

On-line PD test services are easy to implement and seamlessly integrated for fast and confident results. Please contact: Yafei Zhou Email: yafei.zhou@gmail.com Phone: 0064 3 358 0908 Mobile: 0064 21 056 9879

1. You provide the list of the equipment to be tested, a technical specification, pictures or diagrams of cable termination earths, and the date of the test.
2. We will then suggest a test plan and quotation. On-site tests are carried out, followed by test reports with results and recommendations.

On-site test examples



On line PD test for a long 110kV cable at cable screen cross bond



On line PD test for an 110kV cable at its termination



On line PD tests for the final confirmation of a PD joint to be replaced



The replaced PD joint was dissected to check the position and level of PD erosion



The stator bar severely eroded by PD was detected and replaced



On line PD test for #5 transformer at Three Gorges plant