

Voltage Tap Adapter



TechImp Voltage Tap Adapter is a Partial Discharge sensor employed to derive PD and synchronization signal from taps for both single shot and continuous PD measurement sessions. It consists of a customized plug, to be permanently installed on electrical systems which are provided with voltage/capacitive/power factor taps (such as the transformer HV bushings). It is to be fitted up directly to the taps, therefore it must be customized on the basis of each single tap layout, to be provided by the Customer.

It shall be installed while the system is out of service.

A TNC termination is available to connect the Voltage Tap Adapter with the TechImp Derivation Box, through a coaxial cable. The scheme of the relevant PD test circuit is reported below.

The proper measurement impedance (Z_m) and an overvoltage protection are integrated into the Adapter. The rated values of the above electrical components are chosen on the basis of the tap capacitance, to be provided by the Customer.

Concept Scheme of the PD measurement circuit

