iTEV

Transient Earth Voltage Sensor

ASSISTS IN THE DETECTION OF PARTIAL DISCHARGE ACTIVITY IN MCSG

Partial Discharge (PD) is one of symptom that occur due to defect on the high voltage insulation system. PD measurement is needed to monitor the condition of equipment and avoid the failure. PD occurring inside the metal box would emits electromagnetic (EM) wave in wide frequency that propagates and leaks to the outside exciting the surface current on the metal wall and then producing transient earth voltage (TEV) as a result of current and impedance of the material.

iTEV, the TEV sensor provided by Innovit Electric is a partial discharge sensor whose working principle is based on a direct capacitive coupling with a switchgears earthed metal case. It picks up the electric signal given by PD activity onto the two metallic surfaces. Thanks to its special design has high sensitivity. His compact and robust design makes the iTEV the optimal sensor for direct installation on medium voltage Switchgears.

- Detect voltage spike generated from the metal casing of HV equipment.
- Locate PD source in HV equipment by the amplitude of transient earth voltage.
- Magnetically attached to the outer surface of metal clad of HV equipment.
- Suitable for MV switchgears PD detection.

Technical Specification

Model	iTEV
Type	Capacitive
Bandwidth	3 ~ 100 MHz
Measurement Range	-40 - 60 dBmV
Output Connector	BNC
Weight	100 g
Dimensions	60 mm x 60 mm x 35 mm
Installation	Permanent Magnet

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