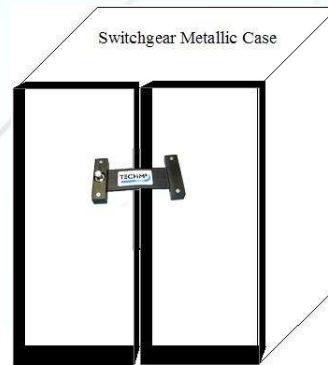
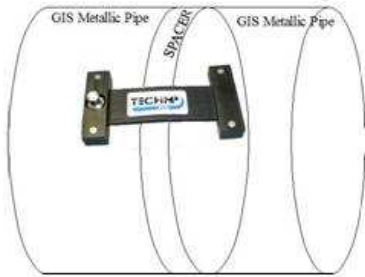


TEV (Transient Earth Voltage)

TEV sensor is a partial discharge sensor whose working principle is based on a direct Capacitive coupling with a Switchgears earthed metal case or external GIS metallic conductor and shield. The two ends of TEV sensor can be coupled magnetically to virtually any opening on a metal surface, or earthed pipes sections separated by spacers like those of GIS. It picks up the electric signal given by PD activity onto the two metallic surfaces. Thanks to its special design has high sensitivity, larger than other single ended TEV sensors. His compact and robust design (passive sensor) makes the TEV the optimal sensor for direct installation on high or medium voltage Switchgears or GIS. Optionally amplifiers and signal conditioning devices are available by Techimp to further improve sensitivity.



TEV Installations Specifications



GIS: TEV sensor is positioned across the spacer with the two ends in direct contact with the metallic surfaces of the GIS pipe.

Switchgears: TEV sensor is positioned across the opening of the metallic case of the switchgear, with the two ends of the sensor in direct contact with the metallic surface. The contact is ensured by magnetic coupling.

TEV Technical Specifications

Property	Value
Bandwidth:	0.1 MHz- 300 MHz, stand alone sensor Techimp Frequency Shifter recommended (with PDCheck)
Working principle:	Capacitive coupling
Overall Dimensions:	130 x 70 x 25 mm
Weight (without the RF cable):	80 g
Connector:	BNC
Power Supply:	Only for optional devices (frequency shifter)
Installation:	Coupled to the earthed metallic case of Switchgears or GIS external metallic pipe
Operational limits:	Env. Temp: 0-65°C; Env. RH: 0-100%