

# Data Sheet

# high performance

# TEV PD sensors

## 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. The two ends of TEV sensor can be coupled magnetically to virtually any opening on a metal surface. 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 medium voltage Switchgears.

Optionally amplifiers and signal conditioning devices are available by Techimp to further improve sensitivity.

### TEV INSTALLATIONS SPECIFICATIONS

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.

### SPECIFICATIONS

<b>Bandwidth:</b>	0.1 MHz- 300 MHz, stand alone sensor Techimp Frequency Shifter recommended (with PDCheck)
<b>Working principle:</b>	Capacitive coupling
<b>Overall Dimensions:</b>	130 x 70 x 25 mm
<b>Weight (without the RF cable):</b>	80 g
<b>Connector:</b>	BNC
<b>Power Supply:</b>	Only for optional devices (frequency shifter)
<b>Installation:</b>	Coupled to the earthed metallic case of Switchgears
<b>Operational limits:</b>	Env. Temp: 0-650C; Env. RH: 0-100%