

# 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

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
Operational limits:	Env. Temp: 0-650C; Env. RH: 0-100%

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[www.altanova-group.com](http://www.altanova-group.com)

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**TECHIMP**

TECHIMP - ALTANOVA GROUP  
Via Toscana 11,  
40069 Zola Predosa (Bo) - Italy  
T +39 051 199 86 050  
Email [sales@altanova-group.com](mailto:sales@altanova-group.com)

**isa**

ISA - ALTANOVA GROUP  
Via Prati Bassi 22,  
21020 Taino (Va) - Italy  
T +39 0331 95 60 81  
Email [sales@altanova-group.com](mailto:sales@altanova-group.com)