

high performance UHF PD sensors

UHF Spiral Antenna

UHF Spiral antenna is a partial discharge sensor designed to receive electromagnetic (EM) emissions from a PD occurring in the monitored asset. It is a broadband antenna with a flat response which makes Spiral antenna suitable in a number of different applications. It has been optimized to operate in a frequency range typical for PD activity and it was designed to provide maximum sensitivity and high gain. Its compact and robust design (passive sensor) makes Spiral antenna the optimal sensor for direct installation on high voltage Transformers. It can be virtually applied in any electrical equipment provided that it has apertures or EM transparent surfaces. Contact our sales department for consulting.

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



Specifications

Bandwidth:	500MHz – 3GHz, stand alone sensor Techimp Frequency Shifter recommended
Typical VSWR:	2:1
Polarization:	Circular
Impedance:	50 Ohm
Overall Dimensions:	340 x 340 x 175 mm (or customized)
Weight (without the RF cable):	3 kg
Connector:	Type N
Power Supply:	Only for optional devices (frequency shifter)
Installation:	In proximity of EUT apertures
Operational limits:	Env. Temp: -20-65C; Env. RH: 0-100%



Suitable For

Several different sensors are available, fully compatible with Techimp Global Diagnostic platform. They can be freely combined at customer needs provided they can be applied for the specific application.

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