

# UTA3

## 3-in-1 Sensor for PD detection in MCSG and dry type transformers



The UTA3™ is Innovit Electric's leading PD sensor for detecting and measuring Partial Discharge activity in medium voltage switchgear and dry type transformers.

The sensor is able to detect and measure the UHF, Transient Earth Voltage (TEV) and Ultrasonic signals simultaneously.

This innovative sensor is the key to understanding the condition of your MV assets, thereby achieving greater system reliability and safety.

The UTA3™ can be magnetically attached to the inner surface of the cubicle, to detect UHF, TEV and Ultrasonic signal, which are used to monitor PD activity in the equipment.

### Features

- Three in one sensor
- Wide frequency range
- Detect PD activity with high reliability
- Easy and quick installation
- Suitable for switchgear PD detection
- Dry type transformer PD detection
- Cost-effective

### Technical Specification

#### General

Application	For PD detecting and measuring on 3.6 ~40.5 kV MCSG or Dry type transformers
Installation	Magnetically attached on the inner wall of switchboard or protection enclosure of dry type transformer
Mechanical design	
Weight	355 g
Dimensions (W*H*D)	80 mm x 129 mm x 26 mm
Operating Environment	
- Temperature	-40 ~ +85 °C
- Humidity	< 90% RH

## Technical Data

### UHF Sensor

Bandwidth	300 ~ 1500 MHz
Average effective height	10 mm
Load impedance	50 $\Omega$
Type of antenna	Dipole
Output connector	SMA

### TEV Sensor

Bandwidth	3~ 100 MHz
Measurement Range	-40 - 60 dBmV
Recommended Load Impedance	50 $\Omega$
Output Connector	SMA

### Ultrasonic Sensor (AA)

Measurement Range	-7- 68 dB $\mu$ V
Centre Frequency	40 kHz
Output Connector	SMA



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