

# PDU-S1 UHF PD Sensor

## PD Detection and Measurement for Metal-clad switchgear



### Features

- Provides you with high sensitivity and accurate measurement for PD detection
- Shielded to avoid electromagnetic interface
- Compact and advanced industrial design
- Fit with any type of the MCSG, GIS or AIS
- Fit for new switchboards and retrofit
- Can be connected to any PD monitoring system, regardless of the manufacturer.
- Easy to be installed

In engineering applications, UHF sensors have been widely used to detect defects such as cracks in physical structures, displacement and tilt detection in wireless radio frequency identification systems, and partial discharge measurements in high voltage engineering. These applications are practically feasible because the transient process of these defects have very short rise times, which results in induced frequency components in the UHF range. An UHF sensor plays a significant role in UHF PD measurement because the initial step of PD measurement is to acquire electromagnetic signals using these devices for further signal processing. To this end, the performance of the sensors will dramatically influence the accuracy and sensitivity of the PD detection system.

Thanks to the PDU-S1 sensor made by Innovit Electric, which provides you with high sensitivity and accurate measurement for ultra-high frequency (UHF) detection, and they are can be customized according to customer's specific technical requirements and connected to any PD monitoring equipment for metal-clad switchgear, regardless of the manufacturer, fully satisfy all kinds of application.

## Specifications

Model	PDU-S1
Type	UHF Sensor
Application	3.6 ~40.5 kV MCSG
Installation	Mounted on the inner wall of switchboard
Bandwidth	300 ~1500 MHz
Average effective height	10 mm
Load impedance	50 $\Omega$
Type of antenna	Dipole
Output	SMA
Operating Temperature	-40 ~ +85 °C
Environment	
- Temperature	-40 ~ +85 °C
- Humidity	< 90% RH
Mechanical design	
- Protection degree	IP65
- Dimension	136 mm * 90 mm * 24 mm
- Weight	245 g



**Xi'an Innovit Electric Co., Ltd.**

No. 190 of Western Avenue, Hi-tech zone

710000 Xi'an, China

029-8938 5800

029-8958 7330 (Fax)

[www.innovit.com.cn](http://www.innovit.com.cn)

[sales@innovit.cn](mailto:sales@innovit.cn)

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