

UHF Sensors PDU-G1,2

For Partial Discharge Monitoring of GIS



PDU-G1, 2

High Sensitivity Makes Brilliant Monitoring



Highly Sensitive

- Sensitivity up to 3 times greater compared to alternatives
- Shielded to avoid electromagnetic interface

Modular

- Fits all GIS
- Easy to install
- Designed for legacy equipment upgrade

Early Fault Detection

- Partial discharge detection via continuous monitoring
- Condition-base asset management
- In-service diagnostic

Retrofit all GIS

- External type fits with any type of the GIS
- Internal window type can be customized

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-G sensor made by Innovit Electric, which provides you with high sensitivity and accurate measurement for ultra-high frequency (UHF) detection and PD positioning, and they are can be customized according to customer's specific technical requirements and connected to any PD monitoring equipment of any gas-insulated substation, regardless of the manufacturer.

Internal window and external types are available, fully satisfy your all kinds of application.

Specifications

Model	PDU-G1	PDU-G2
Type	Internal Window UHF Sensor	External UHF Sensor
Application	Indoor or Outdoor	Indoor or Outdoor
Bandwidth	300 ~1500 MHz	300 ~1500 MHz
Sensitivity	-90 dBm	-90 dBm
Average effective height	10 mm	11 mm
Type of antenna	Dipole	Butterfly
Load Impedance	50 Ω	50 Ω
Output	N-Connector	N-Connector
Operating Temperature	-40 ~ +85 °C	-40 ~ +85 °C
Ingress system	IP65	IP65



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