PDU-T1, 2

UHF Sensor for Partial Discharge Monitoring of Transformer

Highly Sensitive

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

Modular

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

Early Fault Detection

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

Customization is available

- Long term experiences
- Can be customized

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.

UHF sensor, PDU-T consists of a broadband antenna optimized for the UHF frequency range radiated by PD and of its mechanical adaption for the installation at power transformers. Two different mechanical adaptions for internal PD

A. UHF Drain Valve Sensor, PDU-T1
An UHF drain valve sensor is designed for transformers which are equipped with standard of gate valves. It is recommended to use only straight opening valves at new transformers in order to provide sensor compatibility.

B. UHF Plate Sensor, PDU-T2
UHF plate sensors can be mounted directly to the tank wall which is suitable e.g. for newly built transformers or for transformers in repair. A dielectric window is integrated into the tank wall.

Specifications

Model	PDU-T1	PDU-T2
Type	UHF Valve Sensor	UHF Window Plate Sensor
Application	Indoor or Outdoor	Indoor or Outdoor
Bandwidth	300 ～1500 MHz	300 ～1500 MHz
Average effective height	10 mm	10 mm
Type of antenna	Dipole	Butterfly
Load Impedance	50 Ω	50 Ω
Output	N-Connector	N-Connector
Operating Temperature	-40 ～ +85 ℃	-40 ～ +85 ℃
Ingress system	IP65	IP65

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