POWER DIAGNOSTIC INSTRUMENT COMPANY

Partial Discharge Sensor

WPD-1000S

Key Features

- Detects Electrical Partial discharges
- Detects PD via Acoustic or UHF frequency
- Compact dimensions for medium voltage installation
- Easy and quick installation
- Aux power - 220 V AC, 50/60 Hz
- Operating Temperature -40 ~50 °C
- Data communication by LoRA protocol

Technical Specification

- Sampling cycle can be adjusted to users' preference and can be as fast as 15 seconds.
- Signal transmission is based on the LoRA /ZigBee communication protocol in the license free frequency spectrum of 433 MHz or 2.4 GHz.
- Supports IEEE 802.11b/g/n Wireless standards.
- The transmission power of communication signal shall be ≤ 10 dBm with a signal range of up to 30 meters.
- Suitable for quick & easy installation enabling quick turn around and uptime of apparatus.
- Easy to configure with the PDIC's wireless data receiver.
- Compact design with space saving dimensions of 107 mm x 87 mm x 56 mm.
- Warranty - 1 Year standard warranty against any manufacturing defects.

UHF-Type

- PDIC offers an advanced PD detection solution with high-performance sensor manufactured from material suitable for industrial applications. It offers faster & reliable detection of PD phenomena in the energized switchgears, bus ducts, cable boxes, breakers up to voltage rating of 33 kV.
- The sensor detects partial discharge based on the UHF principle within the frequency bandwidth of 100 MHz to 1000 MHz with very high UHF signal reception sensitivity for detection of PD signal as low as 1 dBm.
- Part Number: PD-UHF-01-V1

Ultrasonic-Type

- The sensor detects partial discharge based on the Ultrasonic principle within the frequency bandwidth of 40 kHz ± 2 kHz.
- Part Number: PD-US-01-V1

Optional

- Temperature & Humidity Measurement facility available as an additional option.

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