

PD Annunciator™

Partial Discharge Alarm System

The PD Annunciator™ design allows for convenient partial discharge monitoring on switchgear, ring main units (RMUs) and dry type transformers with high level performance. PD levels are constantly monitored to allow trending evolution analysis along with local or remote alarm generation. This advanced & flexible solution perfectly integrates your organization's SCADA system.

Highlights

- ▶ 24/7 Partial Discharge Monitoring
- ▶ Local & Remote Alarm (e-mail, sms, web)
- ▶ Dual Input Channels
- ▶ Effective Noise Rejection Algorithm
- ▶ Array of Cost Effective Sensors Available
- ▶ Installed Live Without Any Downtime
- ▶ Comprehensive Web Interface
- ▶ Design for Any Scale Deployment

Free interactive presentation:



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Technologies



Next Generation of PD Monitoring

- ▶ PD Annunciator™ is perfectly suited for substation environment, field applications, remote locations, etc..
- ▶ 20+ years experience in the partial discharge detection and analysis field
- ▶ **Buy with confidence.** Training and support is included and provided by ndb Tech's skilled experts who performed hundreds of successful PD Annunciator™ installations

PD Annunciator™ - Technical Specs

Installation mean	DIN rail or Magnets
Power	9V to 24 VDC / 1.2W max
Acoustic channels	3 channels
Acoustic bandwidth	30kHz to 88 kHz
Acoustic dynamic range	40 dB
HF channels	3 channels
HF bandwidth	10MHz to 1.0GHz
HF dynamic range	40 dB
Operating temperature	-30°C to 50°C (-22°F to 122°F)
Alarm Threshold	User-defined for each channels
Alarm Reporting	LED indicators, Dedicated hardware circuit SCADA, web interface, sms, e-mail
Noise mitigation	High frequency noise mitigation based on amplitude and repetition rate
Connectivity	Modbus RTU for remote access USB for PC connection
IP rating	IP65 with dust boots installed
Dimensions	201 x 87 x 53 mm (7.9 x 3.4 x 2.1 in)
Weight	0.51 kg (1.1 lbs)
Approval	CE



Partial Discharge Phenomenon

Partial Discharge is commonly found on aging MV & HV cable accessories. Insulation faults are an important factor in degradation and reduction of the lifetime of an electrical apparatus. This translates into raised exploitation costs and questionable reliability, while economic performance and reliability are key criteria in the evaluation of an electricity supplier. One of the challenges is to address those secondary substations which are too often overlooked due to their high volume spread in a large territories.

PD Annunciator™ Solution

The PD Annunciator™ is the next generation of partial discharge monitoring system for local or remote deployment at reasonable cost. Its unique design allows for quick and easy DIN rail installation, or directly held on metallic cabinets with its strong magnets. Need to monitore multiple switchgear cabinets? PD Annunciator™ is daisy-chainable for clean installation that requires minimal cabling. The easily available RJ45 cables are in fact all that's needed to connect modules one another for data communication and power supply. Up to 3 sensors are connected to PD Annunciator™. In case of detected PD activity, a local alarm would turn on the corresponding LED indicator and send this same alarm status to SCADA.



Dust boot kit available



Magnets or Din Rail mounted



Comm. port Sensor port Sturdy aluminum case

Sensor That Fits Your Application

Not only does the PD Annunciator™ offer outstanding performance and flexibility, it also comes with an array of well thought out high-tech sensors. SonoTEV™ is the latest generation of sensors that combines ultrasonic acoustic and transient earth voltage (TEV) technology in a unique compact magnetic design. Whether it be direct contact or airborne acoustic, there's a SonoTEV™ configuration for your application. HFCT-HD™ clamp sensors are designed for ground return monitoring and offer powerful features such as noise immunity, aluminum construction and filtering. These weatherproof, split core type sensors are very easy to install, they are equipped with a convenient spring latch system, 20mm or 60mm openings as well as IP66 weatherproof protection.



Real case scenario: Partial discharge detected on a cable termination by the PD Annunciator™ system with SonoTEV™ and HFCT-HD™ sensors.

Web Interface

Configuring the PD Annunciator™ and retrieving its data can not only be performed by USB or via SCADA, a new web interface now allows for complete remote operation. A cellular modem is offered for any remote site installation where coverage is available. Configuration, data analysis, alarm management and geolocation are accessible from a user-friendly and customizable web interface with password protection and user access management. All data and communications are encrypted with the latest standards to ensure strong security. Manage all your PD Annunciator™ installations from the comfort of your office at any given time.

