

PD Profiler™

Next Generation in PD Monitoring

The PD Profiler™ is a cutting-edge Partial Discharge Monitor designed to boost reliability and safety of electrical systems. Whether it's transformers, switchgear, or cable testing, this versatile instrument is engineered to address a wide range of critical applications. With its flexibility, the PD Profiler™ enables electrical maintenance professionals to conduct on-site partial discharge surveys or seamlessly integrate the device into permanent monitoring systems for comprehensive grid coverage. Empowering engineers with actionable insights, the PD Profiler™ reduces downtime, optimizes maintenance costs with clear overview of asset insulation. Protect your investments—or your customers'—with this state-of-the-art monitoring solution. The future of electrical system reliability starts here!

Highlights

- New generation of PD Monitoring
- From 8 to 16 PD channels with PrPD
- Advanced interference management/gating
- Highly scalable/daisy chain
- No shutdown required
- Din rail or magnetic mount
- Available in several configurations



Next Generation of PD Monitoring

PD Profiler™ is perfectly suited for substation environment, field applications & remote locations.

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 Profiler™ installations

PD Profiler™ - Technical Specs

PD Channels	Up to 8 PD sensor inputs Up to 16 PD measurement channels
Configuration	Daisy chain
Acoustic Bandwidth	20 kHz to 250 kHz
High-Frequency Bandwidth	3 MHz to 80 MHz
Dynamic Range	Acoustic: 60 dB HF: 80 dB
Phase-Resolved Analysis	PrPD (Phase Resolved Partial Discharge) 45-505 Hz
PD Detection Features	PD qualifying indicators extracted from PrPD data
Filtering	Configurable filters per channel
Noise Suppression	Gating*
Alarm Output	Configurable alarm contact output
Communication Interfaces	Modbus IP / MQTT / REST API / USB

Partial Discharge Phenomenon

Partial discharge is commonly found in aging MV and HV cable accessories. Insulation faults accelerate degradation and shorten the lifespan of electrical equipment, leading to higher operational costs and reduced reliability. Since economic performance and reliability are key factors in evaluating electricity suppliers, addressing these issues is crucial. However, a major challenge lies in monitoring secondary substations, which are often overlooked due to their high number and widespread distribution.

PD Profiler™ Solution

The PD Profiler™ is a next-generation partial discharge monitoring system designed for local or remote deployment at a reasonable cost. It offers 8 to 16 PD channels with phase-resolved partial discharge (PrPD) analysis for precise detection and diagnosis. Advanced interference management and gating effectively filter noise for reliable monitoring. Its scalable, daisy-chainable architecture enables easy expansion with minimal cabling. Onboard memory stores several months of recordings for long-term analysis. Easy to install, the PD Profiler™ attaches directly to metallic cabinets using strong magnets, with no system shutdown required. When PD activity is detected, a local alarm activates the corresponding LED and transmits the alarm status to SCADA.



PD Profiler™ and Phase Sync™ Modules



SonoTEV Pro™ Sensor



HFCT-HD™ Sensor

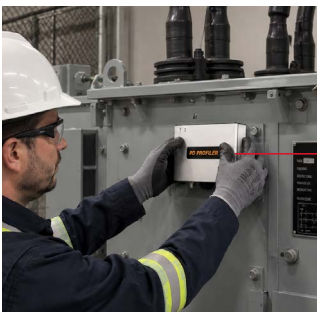
Sensor That Fits Your Application

Not only does the PD Profiler™ offer outstanding performance and flexibility, but it also features a range of advanced, purpose-designed sensors. The SonoTEV Pro™ combines ultrasonic acoustic and transient earth voltage (TEV) technology in a compact magnetic design, with configurations for both direct-contact and airborne acoustic detection. For ground-return monitoring,

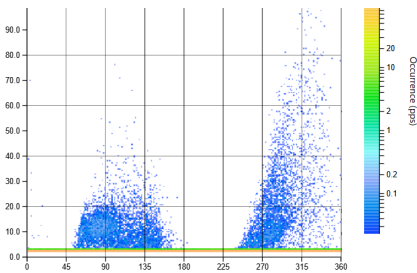
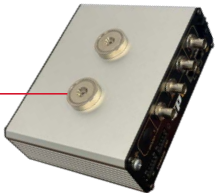
HFCT-HD™ clamp sensors provide excellent performance with noise immunity, aluminum construction, and advanced filtering.



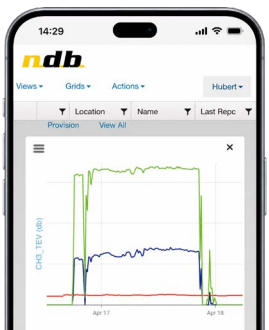
Real case scenario: Partial discharge detected on a cable termination by the PD Profiler™ system with SonoTEV Pro™ and HFCT-HD™ sensors.



Magnetically
mounted for quick and
easy installation
(Din rail mount also available)



PrPD graph



Trending graph