



## Portable partial discharge diagnostic system -PDA – 8

The portable part discharge diagnostic system (PDA - 8) is a portable part discharge diagnostic equipment to detect partial discharge due to a fault within the power plant. It is easy to operate on site with optimum hardware and internal batteries for partial discharge diagnosis in the live state. It consists of diagnostic software and can only be tested with partial discharge by replacing the sensor. It is also highly portable in its optimized size and facilitates diagnosis and analysis of partial discharge with easy operation.

### Necessity of portable discharge diagnostic system

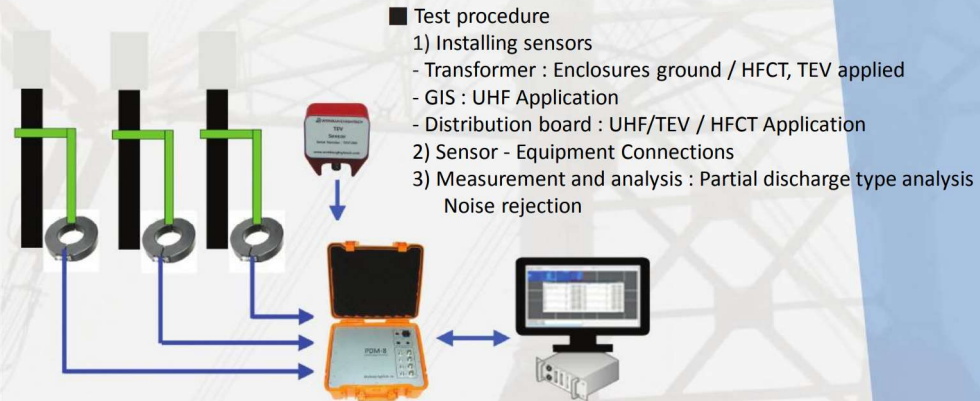
The portable part discharge diagnostic system PDA - 8 can be measured with a total of 8 PD sensors (C CoupleTEV / HFCT 4 channels / UHF 4 channels). PRPS, PRPD 2D / 3D measurement and analysis are possible in real time through a PC connected to the equipment. The system effectively removes noise by applying a genuine partial discharge signal processing technology in the hardware.

### Product characteristics and technical strengths

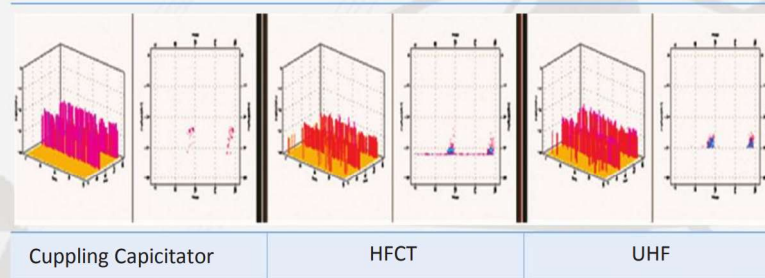
- Measurement sensor (up to 3 locations) C coupler, TEV, HFCT, and UHF  
Measurement frequency band : 10 to 1500 MHz (HF and UHF)
- Optimized size battery for portable 2 hours
- Real-time judgment and data collection
- Function for minimizing noise in substations during partial discharge measurement (noise gating, Band Pass Filter)
- Partial discharge analysis via PRPD, PRPS 2D / 3D algorithm
- User-friendly interface and password security features

Input		90~240Vac, 50~60Hz
Channel		8CH
Maximum Sense Bandwidth	HF	10 ~ 50MHz
	UHF	500 ~ 1500MHz
Phase Synchronization Method		Synchronize internal/external PT
Analog unit	Band Removal Filter	1 (Frequency selectable)
	volume difference	60dBm(-60 ~ +0dBm)
Digital unit	Key Processor	ARM 32-bit Cortex-M7
	Memory	4G Byte
	Communication Protocol	TCP/IP
EMC	Communication access	Ethernet
	EMI/EMC	IEC61000-4 / IEC68
Environment	Temperature	-10 ~ +60℃

## Test configuration and procedures



## Partial discharge measurement waveform



## Sensor Specifications

