

# PDPProbe

## All-in-one Handheld Solution for PD Measurement



### Features

- Dual channel and simultaneous display
  - First channel: TEV, UHF, RFCT
  - Second channel: Ultrasonic, Acoustic Emission
- Display modes
  - Dual display with EM and Audible (numerical)
  - PRPD Pattern
  - PRPS Pattern
- Synchronization
  - Synthesized phase
  - Wireless synchronized to power frequency
- Signal auto-analysis and recognition
- 3.5" LCD color touchscreen
- Up to 8 hours operation, USB charging compatible
- NFC Technology for better testing efficiency

PDPProbe is designed to simplify the inspection process in substations. The fast scanning capability and multiple detecting methods allow users to quickly survey the condition of equipment, and determine if detail investigation is required. The handheld device is equipped with dual detection channel and powerful auto-analysis function to determine PD type.

PD detection is an early warning method to insulation defects or other possible failure related to electrical and mechanical issue. By understanding the PD types, failure mechanism and risk assessment could be made, follow the proper decision and action to prevent breakdown.

### Efficient PD Detecting

PDPProbe is a rapid survey tool for Partial Discharge detection, utilizing different types of sensor including TEV, RFCT, UHF, Acoustic and Ultrasonic for different applications. Through its dual channel design, simultaneous results from two separate sensors can be compared in order to reduce unnecessary sensor switching for comparison. Dual channel reading will be displayed, one from electromagnetic channel plus one from audible channel.

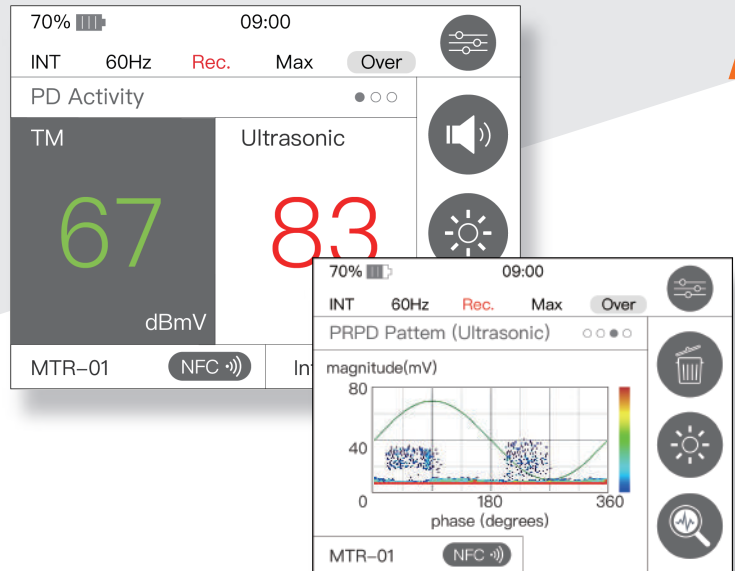
Built-in NFC is an innovated asset management function, that allows on-site testing engineer to improve testing procedure and accuracy.

### Enhanced Analysis Function

Dual magnitude display, PRPD and PRPS are basic functions of PDPProbe. With the aid of PDS's Big Data technology, PDPProbe has built-in signal auto-analysis and recognition function to help the user to distinguish different types of discharge and noise.

### Benefits

- Fast scanning at substation to discover defects
- Wide range of sensors for more accurate result
- Dual channel for different detection method comparison
- Reduce unnecessary sensor changes
- Multiple display modes to see PD detail
- Auto-recognition of PD type helps analysis process
- Signal recording of both channels
- NFC tag function improve on-site test procedure
- Eliminate unscheduled downtime and minimize scheduled downtime



## Specifications

Parameter	Value
Number of Channel	2 BNC
Channel 1	Electrical sensor (UHF, HFCT, TEV)
Channel 1 range	10 to 900 MHz
Channel 2	Acoustic sensor (US, AE)
Channel 2 range	-6 to 70 dB $\mu$ V
US frequency range	40 $\pm$ 2 kHz
AE frequency range	150 $\pm$ 2 kHz
Recording time	10 minutes
Gain control	Auto or manual

Parameter	Value
Display	3.5" color touchscreen
Communication port	USB
Battery	Rechargeable Li-ion 6.6Ah
Operating time	Up to 8 hours
Battery charger	90 to 264 VAC, 50/60 Hz
Operating temperature	5 to 55 $^{\circ}$ C
Operating humidity	90% RH non-condensing
IP rating	IP42
Dimensions	92 x 172 x 39 (mm)
Weight	300 g

## Accessories

	Standard				Optional		
Wireless Phase Synchronizer	Sensor	TM	TEV	Ultrasonic	HFCT	AE	Ultrasonic
	Type	UHF	TEV	Airborne	HFCT	AE	Parabolic Disc
	Channel	1	1	2	1	2	2
	Frequency	30 MHz 900 MHz	20 MHz 90 MHz	40 kHz $\pm$ 2 kHz	500 kHz 20 MHz	100 kHz 450 kHz	40 kHz $\pm$ 2 kHz



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