

## PDQuick – Handheld Partial Discharge Surveyor

PDQuick 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.

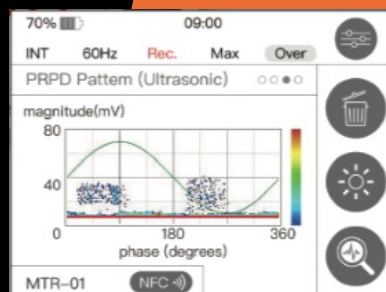
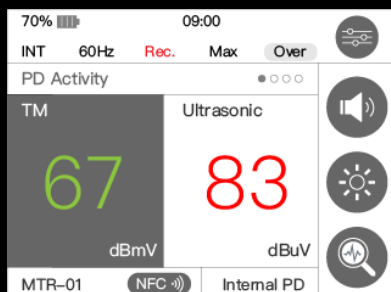
PD detection is an early warning method to insulation defects or other possible failure related to electrical and mechanical issue. By understanding the PD types, failure mechanism and risk assessment could be made, follow the proper decision and action to prevent breakdown.

PDQuick 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.



### 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
Channel 1 sensor	HFCT, UHF, TEV
Channel 1 frequency rage	10MHz – 900MHz
Sensor frequency - HFCT	1.5MHz – 30MHz
Sensor frequency - UHF	30MHz – 900MHz
Sensor frequency - TEV	20MHz – 90MHz
Channel 2 sensor	Acoustic, ultrasonic
Channel 2 frequency range	-6 – 70 dBuV
Sensor frequency - Acoustic	40 +- 2 kHz
Sensor frequency - ultrasonic	150 +- 2 kHz
Gain control	Auto/manual
Recording time	Up to 10 min/rec.

Parameter	Value
Operating time	Up to 8 hours
Battery	Rechargeable Li-ion 6.6Ah
Battery charger	90 – 264 VAC, 50/60Hz
Communication	Micro-USB
Operating temperature	5 to 55 °C
Operating humidity	90% RH non-condensing
Number of Buttons	6 (Power, enter, 4ways: left, right, up and down)
IP Rating	IP42
Weight	300g
Dimensions	92mm (W) x 172mm (H) x 39mm (D)

## Sensors

Sensor	HFCT	TEV	TM	Acoustic	Ultrasonic	Ultrasonic
Channel	1	1	1	2	2	2
Type	HFCT	TEV	UHF	AE	Airborne	Parabolic disc
Frequency	10MHz – 30MHz	20MHz – 90MHz	30MHz – 900MHz	100kHz – 450kHz	40kHz +- 2kHz	40kHz +- 2kHz
Mounting	Split core	Magnetic	Hook	Magnetic	Handheld	Handheld

## Accessories

- Pulse generator
- Wireless synchronizer
- Micro-SUB cable
- Charging dock
- Software
- User manual

