



## GDPD-313M Portable Partial Discharge Detector



### General Information

TEV and AE method is acknowledged and suitable technology to be used in online partial discharge detection.

GDPD-313M uses ultrasonic detection technology(AE) and TEV mode, which can effectively ensure signal sensitivity in the interference on-site environment . It is suitable to detect PD flaw and locate PD signal for switch cabinet etc.

### Features

- Built-in ultrasonic sensor; electrical fault generates ultrasonic wave at the fault point, and ultrasonic mode transmits the ultrasonic signal through the earphone to scan

the area to detect the discharge. Various characteristics of vibration, pop, and hum can be associated with different faults.

- Built-in high-precision TEV sensor, coupled with electromagnetic signals generated by partial discharge, to identify potential internal discharge failure risks.
- In Ultra Mode, the main interface displays the partial discharge amplitude (dBuv), and uses the yellow, green and red colors to increase the severity of the partial discharge. At the same time, the headphone listening volume (Vol) can be adjusted.
- In the transient radio mode (TEV Mode), the main interface displays the partial discharge amplitude; the number of pulses, the total number of pulses and the discharge intensity level in each power frequency cycle.
- Powered by rechargeable lithium battery, continuous working for more than 6 hours.
- True color LCD display, real-time battery power prompt; physical film button is easy to use and equipped with external high-fidelity noise reducing headphones.

## Specifications

### TEV Sensor

Measurement range	0-60dB
Bandwidth	3-100MHz
Accuracy	±1dB
Max. pulse times per cycle	1000
Min. pulse times	1

### Ultrasonic sensor

Measurement range	-7dB~60dB
Resolution	1dB

Accuracy	±1dB
Sensitivity	-65dB
Center frequency	40.0±1.0KHz
Bandwidth	2.0KHz

### Battery

Built-in battery	Lithium battery, 8.4V, 1800mAh
Use time	About 6hours
Charging time	About 5hours
Protection	Over-voltage and over-current protection

### Charger

Rated voltage	8.4V
Output current	1A
Temperature	10°C-60°C
Humidity	<80%

### Hardware

Shell	Monochrome molding plastic
Screen	240*320 TFT LCD screen
Control	6 buttons

Interface	Micro USB interface, charger port, headphone port, external port for collecting wave collector
Headphone	High fidelity noise canceling headphones

### Dimension

Size	178mm×75mm×30mm
Weight	0.25KG
Case size	415mm×330mm×170mm
Case weight	2.3KG
Total weight	2.7KG

### Working environment

Use temperature	-20°C~50°C
Environmental humidity	0-90%RH
IP class	54

### Packing list

Main unit	1pc
TEV sensor(built-in)	1pc
Ultrasonic sensor(built-in)	1pc
Noise canceling headphone	1pc
Probe	1pc
Wave collector(Optional)	1pc
Charger	1pc

Power cord	1pc
User's guide	1pc
Factory test report	1pc