

GDPD-313M Portable Partial Discharge Detector



external flexible sensor (for option)



Parabolic sensor (wave condenser, for option)

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
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● 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	178mmx75mmx30mm
Weight	0.25KG
Case size	415mmx330mmx170mm
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	1 pc
TEV sensor(built-in)	1 pc
Ultrasonic sensor(built-in)	1 pc
Noise canceling headphone	1 pc
External flexible sensor (Optional)	1 pc
Wave collector (Optional)	1 pc
Charger	1 pc
Power cord	1 pc
User's guide	1 pc
Factory test report	1 pc