

## Multifunctional Partial Discharge Detection Equipment

**Models: RDPDA-102H、RDPDG-102H、RDPDT-102H、RDPDZ-104H**

Multifunctional Partial Discharge Detection Equipment

is a multifunctional hand-held instrument, which is based on ground wave, ultrasonic, UHF and high-frequency current detection methods. It can test the PD of equipment, read out the PD amplitude and spectrum waveform, provide the storage and reading functions of 2D and 3D spectrum, and



evaluate the PD of electrical equipment well. Multifunctional Partial Discharge Detection Equipment is suitable for local discharge detection of GIS, switch cabinet, transformer, power cable and other electrical equipment. The equipment is portable and easy to operate, and all the tests have no influence on the operation of high-voltage equipment. The product can observe the measurement signal for multiple periods, identify the frequency of discharge, and analyze it through various modes, so that the fault can be clearly judged.

The Multifunctional Partial Discharge Detection Equipment adopts a brand-new design, uses the popular Android system at present, and is easier to operate and use. In addition, it integrates the function of 5 million cameras to make patrol records convenient. RFID is conducive to expanding the application of the Internet of Things; The internal discharge type library is integrated, which is convenient for comparison and verification of discharge conditions.


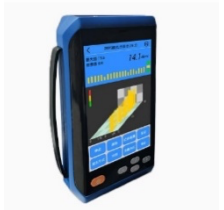




### Product Features

1. Small size, light weight, portability and easy operation.
2. Background light LCD screen
3. Built-in lithium battery.
4. It can provide the functions of storing and reading two-dimensional and three-dimensional maps.
5. Automatic gain control adjustment is adopted, with strong anti-interference ability.

6. Through a variety of anti-interference means to suppress various external interference, improve the signal-to-noise ratio, and effectively improve the detection accuracy.
7. The instrument has RFID / WiFi / Bluetooth functions, which is conducive to expanding the application of the Internet of things.
8. The internal integrated discharge type library facilitates the comparison and verification of discharge conditions.
9. Time domain waveform multi cycle display mode, accurately judge interference and discharge.
10. Patrol inspection data can be exported to PC through SD card or U disk to complete the creation of user report.

### Product specifications and technical parameters

<b>Picture</b>				
<b>Model</b>	<b>RDPDA-102H</b>	<b>RDPDG-102H</b>	<b>RDPDT-102H</b>	<b>RDPDZ-104H</b>
<b>Host parameter</b>				
Number of detectable channels	2 channels: 1 US, 1 TEV	2 channels: 1 US, 1UHF (wireless)	2 channels: 1 US, 1HFCT (wireless)	4 channels: 1TEV, 1US, 1UHF (wireless, optional) , 1HFCT (wireless, optional)
Sampling	12bit			

accuracy				
Synchronization mode	Internal synchronization, external synchronization, optical synchronization			
Non-contact US				
Center frequency	40kHz	\	\	40kHz
Resolution	0.1uV	\	\	0.1uV
Accuracy	±0.1uV	\	\	±0.1uV
Measuring range	0.5 uV ~ 1mV	\	\	0.5uV ~ 1mV
Output interface	Standard SMA connection host	\	\	Standard SMA connection host
Contact US				
Frequency range	\	20kHz ~ 300kHz		
Output impedance	\	50Ω		
Detection sensitivity	\	0.1mV		
Measuring range	\	0.1mV ~ 1V		
Output interface	\	Standard SMA connection host		
UHF				
Measurement frequency range	\	300MHz -1.5GHz	\	300MHz ~ 1.5GHz
Detection sensitivity	\	< -60dBm	\	< -60dBm
Receiving method:	\	The antenna	\	The antenna

Transfer method	\	coaxial cable	\	Coaxial cable
Output interface	\	BNC interface-signal conditioning unit, wirelessly connected to the host	\	BNC interface - signal conditioning unit, wireless connection to the host
<b>TEV</b>				
Measurement frequency range	3M-100MHz	\	\	3M-100MHz
Measuring range	0~60dB	\	\	0 ~ 60dB
Measurement error	±2dB	\	\	±2dB
Resolution	1dB	\	\	1dB
Max. pulses per cycle	720	\	\	720
Min. pulse frequency	10Hz	\	\	10Hz
Output interface	Standard SMA connection host	\	\	Standard SMA connection host
<b>HFCT</b>				
Measurement frequency range	\	\	1M-30MHz	
Transmission impedance	\	\	>5mV/mA(10MHz )	
Output impedance	\	\	50Ω	
Measuring range	\	\	-20~80dB	

Measurement error	\	\	±1dB
Resolution	\	\	1dB
Output interface	BNC interface-signal conditioning unit, wirelessly connected to the host		
Hardware			
Display screen	5.0 inch TFT true color LCD screen		
Resolution	800×480		
Operate	Touch/key		
Data storage	TF card		
Interface	3.5mm stereo headphone jack		
Power supply	DC-12V/2A DC Power Supply		
Extended function	Us-type C/5 million cameras /RFID/WIFI/ Bluetooth		
Power supply			
Internal power supply	Battery powered (4800mAH 7.4V)		
Normal working hours	About 7 hours, and the full charge time of the battery is about 3 hours.		
Measure			
Length× Width× Height	235mm×133mm×48mm		
Weight	0.85kg		
Environment			
Operating temperature	-20℃ ~ 50℃		
Storage temperature	-40℃ ~ 70℃		
Humidity	10%-90% (non-condensing)		
Altitude	≤3000m		



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