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GDPD-414H Handheld Partial Discharge Detector



Pictures for reference only.

The GDPD-414H handheld Partial Discharge Detector adopts smart quick intelligent power test system (Soft No. 1010215, trademark registration number 14684481). It can flexibly configure various sensors according to different products to be tested. TEV, ultrasonic and HFCT are suitable for partial discharge detection of high-voltage switchgear and ring network cabinet; Ultrasonic and UHF are suitable for detecting GIS; Ultrasonic and HFCT are suitable for testing power cable. The built-in expert diagnosis system can analyze the test data and judge the discharge energy and possible parts. It is widely used in electric power and railway.

Features

- All PD detection hosts, tablets, sensors, chargers, and signal cables are placed in the portable ABS engineering chassis. The total weight is less than 5KG, easy for carrying and operating.
- High-speed sampling board, 4-channel synchronous data acquisition, signal processing, feature parameter extraction, data can be sent to the handheld terminal by wire and wireless.
- Analyze software based on ARM embedded system. Display software based on windows system.
- A data acquisition host can simultaneously configure 2 or 4 channels (selected by buyer) of the same or different sensors and simultaneously collect and analyze 2 or 4 channels of signals.
- 8.1inch 1280 x 800 IPS touch screen.
- The software system judges the discharge energy and location according to the detection data, and it can display the PRPS and PRPD maps, ellipse diagrams, discharge rate maps, QT maps, NT maps, PRPD cumulative maps-φ-Q-N maps of each signal channel, and can display amplitude and pulse number of each signal channel. All the data can be

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stored.

- Over-limit alarm. Using three-color indication modes of red, yellow and blue, which indicates the severity of partial discharge and facilitates information reading.
- Average trouble-free time is over 50000hours
- Safety performance: meets GB/T 19862-2005 general requirements for switchgear monitoring equipment.
- Electromagnetic compatibility: Electrostatic discharge immunity meets level IEC 61000-4-2: 2001 Damped oscillatory magnetic field immunity meets IEC 61000-4-10: 1993 level 3 Power frequency magnetic field immunity meets IEC 61000-4-8: 2001 level 3 Pulse magnetic field immunity meets IEC 61000-4-9: 1993 Level 3
- Power supply: powered by 12V lithium battery, power consumption < 10W, continuous working for more than 7 hours.
- Environmental conditions: Storage temperature: -40°C ~ +85°C, Working temperature: -20°C ~ +60°C, Relative humidity: 5% ~ 95% without condensation at 25°C
- Lightweight and easy to carry, it is suitable for field use Signal acquisition host weight <0.8kg

PD signal acquisition host		
CPU Working frequency	1.2GHz	
Operating system	Linux embedded operating system	
Wired network port	LAN network port	
Wireless network port	Built-in wireless WiFi	
System running memory	512M	
System storage memory	256M	
Data acquisition frequency	100MHz	
Ultrasonic detection channel		
Measurementrange	AE sensor 0-10mV, or AA sensor 0-100dBµV	
Frequency detection range	20~200kHz	
UHF detection channel		
Detection frequency	300~1500MHz	
Measurementrange	-80~10dBm	

Specifications



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Error	±1dBm		
Resolution	1dBm		
HFCT detection channel			
Frequency range	0.5~100MHz		
Error	±1dB		
Sensitivity	15mV/1mA		
Dynamic Range	60dB		
Measurementrange	0-1000mV		
Accuracy	1dB		
TEV detection channel			
Frequency range	3~100MHz		
Measurementrange	0-60dBmV		
Error	±1dBmV		
Sensitivity	0.01mV		
Resolution	1dBmV		
Battery			
Built-in battery	Lithium battery, 12V, 2000mAh		
Use time	about 6 hours		
Chargingtime	About 2 hours		
Battery protection	Over-voltage and over-current protection		
Battery charging			
Rated voltage	12.6V		
Charging output current	2A		
Operating temperature	-20°C-60°C		
Operating humidity	<80%		
Handheld display terminal (industrial grade)			
CPU	Intel Quad Core Atom Z3735F		
GPU	Intel HD Graphic (Gen7)		
Flash	32GB		
RAM	2GB		
Operating system	Windows10		



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Display	8.1 inch 1280×800 IPS screen		
Network interface	Wifi and Bluetooth		
Battery	3.7V 8500mAH polymer lithium ion battery		
Size			
PD acquisition host size	240mm*165mm*55mm		
PD acquisition host weight	0.65kg		
Display tablet terminal size	395mm*295mm*105mm		
Display tablet terminal weight	0.85kg		
Overall box size	570mm*360mm*240mm		
Working environment			
Working temperature	-20°C 50°C		
Environment humidity	0~90%RH		
IP level	54		

Accessories:

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PD signal acquisition host (2 channels or 4 channels)	1 set
8.1inch industrial grade tablet	1 set
External TEV sensor (optional)	1 piece
External ultrasonic sensor (optional)	1 piece
External UHF sensor (optional)	1 piece
External HFCT sensor (optional)	1 piece
Signal acquisition cable	1 set
Charger	1 piece
Host bag	1 piece
Operation Manual	1 сору
Factory test report	1 сору
Accessory case	1 piece