

HTJF-9003 Ultrasonic Partial Discharge Detector



Product Introduction

Portable multifunctional partial discharge tester is our company's technical personnel according to many years of local discharge testing experience, suitable for high voltage equipment partial discharge online detection and location.

The system is equipped with composite TEV sensor, uhf sensor, hf current transformer and high sensitivity ultrasonic sensor to collect partial discharge signals inside the high-pressure equipment. The system adopts multi-stage detection and frequency reduction technology to reduce the frequency of discharge signal, and USES high-speed AD conversion circuit to digitize the signal, and ensures the reliability of detection data through digital signal processing, adaptive filtering and other interference signal processing methods. By collecting different signals generated by partial discharge in different high voltage equipment, the running state of the equipment can be quickly charged. The instrument can be installed and tested under the running state of the equipment, without any influence on the normal operation of the equipment. It is

convenient for the staff to timely evaluate the running state of the switch cabinet, and greatly improves the reliability, safety and effectiveness of the equipment running.

The portable multifunctional partial discharge tester consists of the main tester, TEV sensor, ultrasonic sensor, hf current transformer, uhf sensor and connecting wire.

Product Names: partial discharge detector, ultrasonic partial discharge detector

Product Parameters

TEV measurement

1Ev measurement		
Sensor	capacitive	
Measuring range	0 ~ 60dBmV	
Resolution ratio	1dB	
Error	± 1dB	
Detection bandwidth	5 ~ 70MHz	
Maximum pulse/period	655	
Threshold adjustment range	3 ~ 57dB	
High-frequency current transfe	ormer	
Detection frequency band	10kHz ~ 30MHz	
Signal transmission mode	50 Ω coaxial cable	
Detection sensitivity	10pC	
Illtragania transducan		

Ultrasonic transducer

Measuring range	$-7dB\mu V \sim 68dB\mu V$
Resolution ratio	1dB
Error	± 1dB
Sensor sensitivity	- 65 dB (0dB = 1volt/ μ bar RMS SPL)
Sensor center frequency	20 ~ 50kHz
Sensor diameter	no greater than 50 mm

Heterodyne frequency	38.4kHz
Uhf sensor	
Detection frequency band	300MHz ~ 1.5GHz
Signal transmission mode	50 Ω coaxial cable
Detection sensitivity	1dB
Gain	> 65dbm
Using the environment	
Altitude	≤ 3000m
Environment temperature	-20 ~ 60°C
Relative humidity	≤ 95%
Hardware requirements	
Shell	with a protective case, the protection grade should be up to or better than IP53
Connector	headphone jack, low voltage dc charger input, external ultrasonic sensor input
Weight	> 3 kg
Display	LED display, and can display battery status

Product features

- 1. The system adopts multi-stage detection and frequency reduction technology to reduce the frequency of discharge signal. Meanwhile, high-speed AD conversion circuit is adopted to complete the digitization of the signal.
- 2. By collecting different signals generated by partial discharge in different high-pressure equipment, the running state of the equipment can be quickly charged.
- 3. The instrument can be installed and tested under the running state of the equipment without any influence on the normal operation of the equipment.