

PDT9 - Partial Discharge Tester

PDT9 - Partial Discharge Tester

Rating: Not Rated Yet

[Ask a question about this product](#)

Description

Description

PDT9 handheld PD tester is our technical teams throughout years of detection experiences of high-voltage equipment partial discharge online detection and positioning.

The system is equipped with composite TEV sensors, UHF sensor, high-frequency current transformer and high sensitivity ultrasonic sensors to collect high voltage equipment internal partial discharge signal. With the feature a multi-level detection frequency reduction technique it could reduce the discharge frequency of the signal, while using digital high-speed AD conversion circuit to complete the signal, and through digital signal processing, adaptive filtering.

It's equipped with interference signal processing mode to ensure the reliability of the monitoring data. Through different signal acquisition of the partial discharge of high voltage equipment can produce different charged fast detection condition of the equipment. The equipment can be installed in the detection of the running state of the equipment, the normal operation of the equipment does not have any effect, evaluation for the staff in a timely manner on the switch cabinet the running state, greatly improving the reliability of equipment, safety and effectiveness.

Specification

Requirements for instrument measurement parameters	composite TEV measurement	
	Sensor:	capacitance;
	Resolution:	1dB; error: + 1dB;
	Detection bandwidth:	5~70MHz; pulse / cycle maximum: 655;
	Threshold adjustment range:	3 ~ 57dB.
	high frequency current transformer	
	Detection frequency band:	10kHz to 30MHz signal
	Detection sensitivity:	10pC
	transmission mode:	50 coaxial cable
	ultrasonic measurement	
	Measuring range:	-7dB V ~ 68 dB V;
	resolution:	1dB;
	Error:	±1dB
	sensor sensitivity:	-65dB(0dB = 1volt/?bar SPL RMS);
	Sensor center frequency:	20 ~ 50kHz;
sensor diameter:	less than 50mm;	
Heterodyne frequency:	38.4kHz.	
UHF sensor		
Detection:	300MHz ~ 1.5GHz band signal	

	transmission mode:	50 coaxial cable
	Detection sensitivity:	1dB
	gain:	> 65dbm
hardware requirements	Shell	with a protective shell, protection level should reach or better than IP53;
	Connector	earphone socket, low voltage DC charger input, external ultrasonic sensor input;
	Host weight	no more than 3kg;
	Display:	LED display, and can display the battery status
supply power requirements	Internal battery	equipped with rechargeable battery, the battery voltage is low, with automatic shutdown function;
	Battery duration	single channel mode is greater than 6 hours, multi channel mode is greater than 3 hours;
	Battery charge	can use 220V frequency power supply charge, charge time is not more than 8 hours;
	Battery charge	IP54.