



HTJF-9002 Ultrasonic Partial Discharge Detector



Product Introduction

Ultrasonic discharge detector is applied to partial discharge live circuit detection of transformer, reactor, generator, transformer, bushing, GIS, power cable, power capacitor, CVT, arrester, high voltage switch, switch cabinet and other ac/dc high voltage electrical equipment with various voltage levels and capacities.

When partial discharge occurs, physical phenomena such as ultrasonic wave, heat wave, light wave and magnetic wave will be generated. The ultrasonic wave will spread around in the form of spherical wave with the sound source as the center. Htjf-9002 Ultrasonic discharge detector USES the Ultrasonic signal generated by local discharge to judge the existence and location of local discharge. Combined with the real-time images and data, it can quickly diagnose the status of local discharge. The tester integrates transient voltage to ground and ultrasonic.

Product Names : partial discharge detector、ultrasonic partial discharge detector

Product Parameters

TEV Performance Parameters

Sensor	capacitive
Measuring range	-5 ~ 60dB, step length 1dB
Resolution	1dB

Ultrasonic Measurement Parameter

Measuring range	-11db ~ 68db, step length 1dB
Resolution	1dB
Sensor center frequency	40kHz±1kHz
Sensor diameter	16mm

Instrument hardware index

Indicator	color backlit LCD
Display resolution	320X240
Transverse sensitivity	50us/Div ~2m s /Div
Vertical sensitivity	4uv/Div ~400uv/Div (ultrasonic)
	400uv/Div ~40mv/Div (TEV)
Trigger mode	auto, norm, sign
PC connection interface	USB connection
Charging way	special charger
Data is stored	support SD card storage
Operating time	each set will last 4 to 5 hours after being fully charged
Controller	membrane keyboard
Connector	2.1mm low voltage dc charger input
	3.5mm stereo headphone socket
	external ultrasonic sensor input

Headset	minimum 8 ohms
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Work environment

Working temperature	-10~ 45 °C
Humidity	0-90% RH no condensation

Size

Size	main engine 245x132x45mm; Paraboloid diameter: 275mm
Weight	1kg (host) 0.5kg (sensor)

Battery charger

Rated voltage	90 ~ 264V AC
Frequency	47 - 63Hz
Charging voltage	12V DC
Charging current	500 mA
Time required for full charging	5 hours

Parameters of handheld ultrasonic concentrator

Sensor center frequency	40 kHz
Sensor diameter	16mm
Outer diameter of parabolic reflector	275mm
Standard diameter of parabolic reflector	250mm
Weight	0.6 kg
Working temperature	-10 - 50 °C
Humidity	0-90% relative humidity, no condensation

Product features

1、Ultrasonic and TEV local emission waveform are at the same interface with yellow, green and red warning values, which is the first in China

- 2、 Taking dBmV as the unit, transient ground voltage (TEV) and ultrasonic wave were used to detect the size of partial discharge
- 3、 Color LCD screen, display effect more intuitive, more friendly
- 4、 The earphone monitoring mode is added. In the ultrasonic mode, the real-time monitoring of local amplifier signals can be realized through the earphone
- 5、 The display can always display waveform, and can store valuable waveform, test data automatic storage, is conducive to test records and test data follow-up analysis
- 6、 High signal amplification and sensitivity; Signal reception range: effective distance 15m
- 7、 Moderate intensity red laser tracing, focusing ability, accurate positioning, safe and reliable, simple and practical
- 8、 Discover and locate the insulator discharge on the tower, and the creepage of the open cable head
- 9、 It is mainly used to detect partial discharge of high voltage switchgear
- 10、 Easy to use, small size, light weight, easy to carry.