



GDPD-505H Portable Partial Discharge Detector



General Information

GDPD-505H Handheld Partial Discharge Detector is used for detecting and locating partial discharge of transformer and high voltage electrical equipment.

It consists of main unit, partial discharge detection software, HFCT, calibrated pulse generator, 150khz contacted ultrasonic sensor, synchronous signal converter and connecting line.

Features

Handheld design, robust and reliable.

Strong anti-interference ability, detection data accurately. Using digital filtering technology, effectively eliminate field interference.

High-sensitivity sensor that can sensitively reflect the partial discharge state inside the device.

Connection is simple and convenient

Multi-functional software

The partial discharge display result of this software is in accordance with IEC60270 standard, and can be displayed by using pC and mV .

Specification

Standard	IEC60270, GB/T7354
Working Ambient	
Ambient temperature	-10°C ~ 50°C
Relative humidity	≤95%
Altitude	≤1000m
Main unit parameter	
Measurement channel	2-4 independent channels
Sampling rate	Max.250MHz each channel

Detection sensitivity		1pc
Measurement range		1pc~10000pc
Dynamic range		> 80dB
Bandwidth of 3dB measurement band		10KHz ~ 30MHz
Digital filter		Arbitrarily set in the range of 50KHz – 30MHz
Power supply		AC220V±10%; frequency 50Hz; power <50W
Sensor parameter		
HFCT	Detection bandwidth	50KHz – 30MHz
	Signal transmission mode	50Ω coaxial cable
	Detection sensitivity	10pC
	Standard pulse voltage	0.1V(10pC), 0.5V(50pC), 1.0V(100pC), 5.0V(500pC)
	Output frequency	50Hz~1KHz(step 50)
	Injection capacitance	100pF

Calibrated pulse generator	Rise time	<30ns
	Decay time	≥100μs
	Output internal resistance	<1000
	Calibration charge amount error	<±15%
	Dimension and weight	135*80*25 mm, about 275g
150KHz contact magnetic adsorption ultrasonic sensor	Detection frequency	center frequency 150KHz
	Signal transmission method	50Ω coaxial cable
	Effective sensitivity	10pc (measured in a 5mm thick steel plate tank, one meter range of pure oil)
Synchronous signal converter	Input amplitude range	20-250V
	Input frequency range	40-300Hz
	Signal output range	TTL level

	Signal transmission method	50Ω coaxial cable
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