



GDJF-2008 Partial Discharge Detector is measuring partial discharge for the products such as transformers, mutual inductors, HV switches, zinc monoxide arresters and power cables. It also can make type tests and monitor insulation operation.

This type has the advantages of high sensitivity, wide range of capacitance, being well equipped for input unit impedance detecting and more variants of frequency bands (9 in all). After proper setting, the discharge impulse amount can be read directly. The indicating and digital meters are shown simultaneously.

This detector is widely applied in power stations, manufacturers and institutions.

Use Condition

- Ambient temperature: 0-40°C±2°C
- Relative humidity: ≤80%
- Power supply: 220V±10%, 50HZ
- No violent vibration and mechanical shock
- The device should be placed in the environment with no dust and corrosive, good ventilation. It should not be interfered by strong electromagnetic.
- Earthing requirements: earthing resistance <1Ω

Capacitance range to be tested 6PF-250μF

Testing sensitivity (shown in Table.1)

Input unit No.	Tuning capacitance	Unit	Sensitivity(pC) (Unsymmetrical circuit)
1	6-25-100	pF	0.02
2	25-100-400	pF	0.04
3	100-400-1500	pF	0.06
4	400-1500-6000	pF	0.1
5	1500-6000-25000	pF	0.2
6	0.006-0.025-0.1	μF	0.3

7	0.025-0.1-0.4	uF	0.5
8	0.1-0.4-1.5	uF	1
9	0.4-1.5-6.0	uF	1.5
10	1.5-6.0-25	uF	2.5
11	6.0-2.5-60	uF	5
12	25-60-250	uF	10
7R	Resistance		0.5

Table 1

- Amplifier band

Low terminal: 10KHZ, 20 KHZ, 40 KHZ (optional)

High terminal: 80 KHZ, 200 KHZ, 300 KHZ (optional)

- Amplifier gain adjustment

Coarse control – there are 6 steps for coarse tuning, the gain of each step is $20 \pm 1\text{db}$

Fine control $\geq 20\text{ db}$

- Time windows

Width of window, adjustable 15o-150o

Window position, adjustable 0o-170o

Two windows can be opened simultaneously or separately.

- Discharge meter

Digital display

PD display: LED $3\frac{1}{2}$ digits

0-100.0 Error $< \pm 5\%$ (full scale)

- Ellipse time base

Frequency: 50Hz, 100Hz, 150Hz, 200Hz, 400Hz

Elliptic display color is yellow

Elliptic rotation: each step is 30°, 120 ° rotation can be made.

Display: ellipse – straight line

Enable to adjust high-frequency time base ellipse to normal size according to input voltage (13-275V)., intake power < 1 VA.

- Waveform lock

Lock required waveform of any time to facilitate observation and analysis

- Testing Voltage meter

Range: 100KV (Can be expanded)

Display by 3½ digital voltage meter

Accuracy: better than ±5% (full scale)

- Inside, outside the zero mark function
- Dimensions: 450×450×190 mm
- Weight: about 15kg