

GF1061

PORTABLE HIGH PRECISION CT PT ANALYZER WITH PRINTER

GF1061 portable CT PT analyzer is mainly used for field or lab testing, it can finish the measurements (M) and protection (P) class CT, PT and TYP class CT. Adopt 7 inch touch TFT LCD, self-equipped mini type printer supporting field printing; supporting to use USB flash disk to download data or RS232 port to PC control. This model GF1061 CT PT Analyzer is the most complete and easy-to-use testing system for protection and metering CTs according to IEEE C57.13 and IEC60044 & IEC61869 standards.

Features

1. CT excitation curve;
2. Data storage 10000groups;
3. 7 inch color touch TFT LCD;
4. With battery function optional;
5. Full automatic demagnetization;
6. 10% error curve, 5% error curve;
7. Testing of various types of CT/PT;
8. Download word/PDF test report;
9. Easy to operate, test error quickly;
10. Test CT all parameter in one minute;
11. Auto check knee point voltage value;
12. The best light CT analyzer-only 4.5KG;
13. Programmable control by PC computer;
14. Knee point voltage from 0.1 V up to 50 kV;



Application

1. Power plant;
2. Electrical laboratory;
3. Metrological service center;
4. Electricity power bureau & power company;
5. National Metrology and testing department;
6. Power engineering commissioning company;
7. Current transformer and voltage transformer factory;
8. Electrical Department of industrial and mining enterprises;

Main functions

I. Current Transformer (CT)	II. Voltage Transformer (PT)
1. Magnetization curve	1. Excitation characteristic test
2. Transformation ratio test	2. Transformation ratio test
3. Polarity	3. Polarity
4. 5% and 10% error curve	4. Ratio error, phase error
5. Accuracy limiting factor (ALF)	5. Degauss
6. Degauss	6. Calculation of knee point value
7. Ratio error, phase error	7. Burden test
8. Automatic calculation of excitation knee point value	8. Resistance test(Winding DC resistance test)
9. Burden test	
10. Resistance test(Winding DC resistance test)	
11. Secondary time constant (Ts)	
12. Remanence coefficient (Kr)	
13. Transient dimensioning factor (Ktd)	
14. Peak instantaneous error (Er)	
15. Magnetizing inductance (LU)	
16. Instruments security factor(FS)	
17. Composite error	
18. Visible Flashing LED when terminals are Live	
19. Audible Warning Sound Error Indicator	
20. Ability to Store and Generate/Print Report of Tests	
21. Built-in Thermal Printer	

Parameters

Electrical parameters		
Accuracy		0.02% or 0.05%
Power supply		AC 220V±10% or AC 120V±10%, 50/60Hz or Battery
Output voltage		0-100Vrms
Output current		0-5Arms (20A peak-value)
Output power		0-400 VA (1500 VApeak)
Automatic frequency variation range		0.1-60Hz
Equivalent excitation voltage		≤5000V/50KV
Accuracy		≤0.02% or 0.05%
Secondary winding DC resistance measurement	Range	0.1-1000Ω
	Accuracy	≤0.02% or 0.05%

Electrical parameters - continued

Secondary actual load measurement	Range	0.1VA-1000VA
	Accuracy	$\leq 0.02\% \pm 0.1VA$
CT/PT phase error measurement	Accuracy	$\pm 1\text{min (typical)} / 3\text{ min (guaranteed)}$
	Resolution	0.1min
CT ratio error measurement	Range	1-50000
	Accuracy	$\leq 0.02\%$ or 0.05%
PT ratio error measurement	Range	1-10000
	Accuracy	$\leq 0.02\%$ or 0.05%
LCD display	7' inch TFT touch color LCD	
Cable Length	Primary 5m; Secondary 5m; others customized	
Communication port	USB, RS232, WIFI	
PC control software	Yes, Optional	
Printer	Yes, Thermal printer	

Standards

Reference standards	GB1207-2006, GB1208-2006, GB16847-1997 IEC60044-1, IEC60044-2,6, IEC61869, ANSI/IEEE C57.13
Safety standards	GB 4793.1-2007
EMC	EMC standard 89/336/EEC
	FCC Subpart B of Part 15 Class A
	IEC 1000-4-2/3/4/6

Mechanical parameters

Overall dimension (L x W x H) (mm)	280 x 250 x 160
Weight (kg)	≤ 4.5

Environmental conditions

Relative humidity	Relative humidity 5%-95% not condensing
Operating temperature	-10°C to +50°C
Storage temperature	-20°C to +70°C
Altitude	$\leq 1000\text{m}$; If the altitude is greater than 2500m, the instrument needs to be customized