

## GF1061

### Portable CT PT Analyzer

*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 dump data. The CT PT Analyzer is the most complete and easy-to-use testing system for protection and metering CTs according to IEEE and IEC standards.*

### Features

1. Steady and transient state characteristic tests of various types of CT/PT
2. The use of advanced power technology, the test knee point reaches up to 30kV
3. No external other auxiliary equipment, stand-alone to complete all test items
4. CT test, easy to test, all the tests are using the same wire connection except the load test
5. It carries with thermal printer, so it can print test results on site
6. Parameters such as knee point current and voltage
7. Parameters such as 10% error curve, 5% error curve
8. With battery, working 48hours.
9. The device can store 10000 groups of test data which would not be lost if the device is power off.
10. The data can be displayed and analyzed after the test, or transferred to PC through USB disk and produce a Word file report
11. Portability: weight <4kg, the best light ct analyzer



### Reference Standard

IEC 60044, ANSI/ IEEE C57.13, IEC61869, GB 1207-2006, GB 1208-2006

## Parameters

Electrical parameters		
Accuracy		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
Accuracy		≤0.5%
Secondary winding DC resistance measurement	Range	0.1-1000Ω
	Accuracy	≤0.05%
Secondary actual load measurement	Range	5VA-1000VA
	Accuracy	≤0.5%±0.1VA
CT/PT phase error measurement	Accuracy	±1min (typical) / 3 min (guaranteed)
	Resolution	0.1min
CT ratio error measurement	Range	1-50000
	Accuracy	≤0.05%
PT ratio error measurement	Range	1-10000
	Accuracy	≤0.05%
Standards		
Reference standards		GB1207-2006, GB1208-2006, GB16847-1997 IEC60044-1, IEC60044-6, IEC61869-2, 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
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		≤1000m

## Function

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. Actual secondary load test (burden test)
8. Automatic calculation of excitation knee point value	8. Resistance test
9. Actual secondary load test (burden test)	
10. 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	