

GF106

CT/PT Analyzer

GF106 CT/PT analyzer is mainly used for field testing, it can finish the measurements (M) and protection (P) class CT, PT and TYP class CT. Adopt LCD, self-equipped mini type printer supporting field printing; supporting to use USB flash disk to dump data, with simple and convenient operation.



The test items mainly include

Steady	Transient
excitation characteristic	secondary winding time constant (T_s)
transformation ratio	remanence coefficient (K_r)
polarity	transient dimensioning factor (K_{td})
ratio error	peak instantaneous error (E_r)
phases	magnetizing inductance (L_U)
5% and 10% error curves	other parameters
resistance	
secondary load	

Standard

GB 1207-2006, GB 1208-2006 (IEC 60044-1), GB16847-1997 (IEC 60044-6), IEEE C57.13-1993

Functions

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 40kV.
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 it 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. The device can store 3000 groups of test data which would not be lost if the device loses its power.
9. The data can be displayed and analyzed after the test, or transferred to PC through USB disk and produce a Word file report.
10. Portability: weight <12Kg.

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, phases
5. Current Injecting	5. Degauss
6. Degauss	6. Calculation of Knee Point Value
7. Ratio error, phases	7. Actual Secondary Load (Burden), Test (Burden)
8. Automatic Calculation of Excitation Knee Point Value	8. Resistance Test
9. Actual Secondary Load Test (Burden) (Load Test)	
10. Resistance Test	
11. Secondary winding time constant (Ts)	
12. Remanence coefficient (Kr)	
13. Transient dimensioning factor (Ktd)	
14. Peak instantaneous error (Er)	
15. Magnetizing inductance (LU)	

Parameters

Electrical parameters		
Accuracy		0.05%, 0.1%
Power supply		AC 220V±10% or AC 110V±10%, 50/60Hz
Excitation output voltage		0-220Vrms
Excitation output current		0-5Arms (20A peak-value)
Automatic frequency variation range		0.1-60Hz
Equivalent excitation voltage		≤5000V
Accuracy		≤0.5% (0.2%RD+0.3%RG)
Secondary winding DC resistance measurement	Range	0.1-300Ω
	Accuracy	≤0.5% (0.2%RD+0.3%RG)
Secondary actual load measurement	Range	5VA-1000VA
	Accuracy	≤0.5% (0.2%RD+0.3%RG)±0.1VA
CT/PT phase error measurement	Accuracy	±4min
	Resolution	0.01min
CT ratio error measurement	Range	1-30000
	Accuracy	≤0.5%
PT ratio error measurement	Range	1-10000
	Accuracy	≤0.5%

Standards

Reference standards	GB1207-2006, GB1208-2006, GB16847-1997 IEC60044-1, IEC60044-6, IEC61869-2-2012
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)	410 x 250 x 300
Weight (kg)	≤10

Environmental conditions

Relative humidity	90RH%
Operating temperature	-10°C to +40°C
Altitude	≤2000m