

## GF106T6

### MULTI-RATIO CT ANALYZER

GF106T6 multi-ratio CT analyzer is mainly used for field or lab testing of Measurement & Protection class CT and TYP class CT. It can automatically test six ct at the same time. This current transformer analyzer of test items mainly include excitation characteristic, transformation ratio, polarity, degauss, ratio & phase error, 5% and 10% error curves, secondary winding resistance check and secondary load. Adopting 7 inch touch TFT color LCD, Primary current injection from 0 to 100A or 1000A, self-equipped mini type printer sup use USB flash disk to download data. GF106T6 CT Analyzer is the most complete and easy-to-use testing system for protection and metering CTs according to IEEE C57.13 and IEC60044 & IEC61869, GB/T20840-1, 2 standards.

### Application

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



### Features

1. CT ratio: 1-50000;
2. CT excitation curve;
3. High accuracy 0.02% ;
4. Download data by U disk;
5. 7 inch touch TFT color LCD;
6. Data storage 10000groups;
7. Automatic demagnetization;
8. Easy to operate, auto test error;
9. 10% error curve, 5% error curve;
10. Download word/PDF test report;
11. Testing six CT ratio at the same time;
12. Auto check knee point voltage value;
13. Testing of various types of protection ct;
14. Knee point voltage from 0.1 V up to 50 kV;
15. Primary current injection from 0 to 100A or 1000A;
16. Adopted the principle of increasing voltage and current;

## Main Functions

### I. Current Transformer (CT)

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

## Parameters

### Electrical parameters

Accuracy		0.02% or 0.05%
Power supply		AC 85-265V, 50/60Hz or Battery
Output voltage		0-180Vrms
Output current		0-5Arms (20A peak-value)
Output power		0-1000 VA (2000 VApeak)
Automatic frequency variation range		0.1-60Hz
Equivalent excitation voltage		≤5000V/50KV
Accuracy		≤0.02% or 0.05%
Power factory		0.1 - 1
Secondary winding DC resistance measurement	Range	0.1-1000Ω
	Accuracy	≤0.02% or 0.05%
Secondary actual load measurement	Range	0.1VA-1000VA
	Accuracy	≤0.02%±0.1VA

**Electrical parameters - continued**

CT/PT phase error measurement	Accuracy	±1min (typical) / 3 min (guaranteed)
	Resolution	0.1min
CT ratio error measurement	Range	1-50000
	Accuracy	≤0.02% or 0.05%
Test CT ratio number		6
Primary current injection		0-100A or 0-1000A
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)	380 x 320 x 180
Weight (kg)	≤10

**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	≤2000m; If the altitude is greater than 2500m, the instrument needs to be customized