GF106T

PORTABLE CURRENT TRANSFORMER TESTER WITH PT TESTING

GF106T is mainly used for field testing of Protection class CT and PT. This current transformer tester of test items mainly include excitation characteristic, transformation ratio, polarity, degauss, ratio & phase error, 5% and 10% error curves, secondary winding resistance check, withstand test of power frequency alternating current and secondary load. Adopting LCD, self-equipped mini type printer supporting field printing; supporting to use USB flash disk to download data, with simple and convenient operation.

Application

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

Features

1. CT excitation curve;
2. 10% error curve, 5% error curve;
3. Download data by U disk;
4. Auto check knee point voltage value;
5. Data storage 3000groups;
6. Testing of various types of protection ct;
7. Automatic demagnetization;
8. Primary current injection from 0 to 1000A;
9. Easy to operate, auto test error;
10. Adopted the principle of increasing voltage and current;
11. Primary voltage output max 2500V;

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. Withstand test of power frequency alternating current

Main Functions

I. Current Transformer (CT) - continued	II. Voltage Transformer (PT) - continued
5. Current Injecting	5. Degauss
6. Degauss	6. Ratio error, phase error
7. Ratio error, phase error	7. Calculation of knee point value
8. Withstand test of power frequency AC	8. Actual secondary load test(Burden test)
9. Auto calculation of excitation knee point value	9. Resistance test
10. Actual secondary load test(Burden test)	
11. Resistance test	

Parameters

Electrical parameters		
Accuracy		0.2%, 0.5%
Power supply		AC 220V±10% or AC 110V±10%, 50/60Hz
Excitation voltage output		0-2500Vrms
Excitation current output		0-5Arms (20A peak-value)
Large current output		0-1000A
Large current cable length		4m, 95mm²
Accuracy		≤0.2%
Frequency		50Hz or 60Hz optional
Secondary winding DC resistance measurement	Range	0.1-300Ω
	Accuracy	≤0.2%
Secondary actual load measurement	Range	0.1VA-1000VA
	Accuracy	≤0.2%
CT/PT phase error measurement	Accuracy	±4min
	Resolution	0.01min
CT ratio error measurement	Range	≤25000A/5A(5000A/1A)
	Accuracy	≤0.2%
PT ratio error measurement	Range	1-500KV
	Accuracy	≤0.2%
LCD display		5.6' inch blacklight LCD
Cable Length		Primary 4m; Secondary 5m; others customized
Communication port		USB
PC control software		Yes, Optional
Printer		Yes, Thermal printer

Standards	
Reference standards	GB1207-2006, GB1208-2006, GB16847-1997 IEC60044-1, IEC60044-6, IEC61869-1,2,3, 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)	400 x 250 x 250
Weight (kg)	≤22
Environmental conditions	
Operating Temperature	-10°C to 50°C
Storage Temperature	-40°C to 70°C
Relative humidity	≤95%， on-condensing
Altitude	≤2000m

Accessories