GF1061CT

PORTABLE CT ANALYZER WITH PRINTER

GF1061CT portable CT 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 GF1061CT current transformer 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. It can test ct ratio error, phase error, polarity, excitation, DC winding resistance, CT installation loop burden, impedance, admittance etc. The GF1061CT is one ideal test tool for electricity power utility and electricity engineering company and so on.

Application

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

Features

1. CT excitation curve testing;
2. Data storage 10000groups;
3. 7 inch color touch TFT LCD;
4. Testing of various types of CT;
5. With battery function optional;
6. With USB, WIFI, BT, RS232 port;
7. 10% error curve, 5% error curve;
8. Full automatic demagnetization;
9. Download word/PDF test report;
10. Easy to operate, test error quickly;
11. Test CT all parameter in one minute;
12. Auto check knee point voltage value;
13. The best light CT analyzer-only 4.5KG;
14. Programmable control by PC computer;
15. Knee point voltage from 0.1 V up to 50 kV;
16. Built in class 0.01 high precision standard ct;
17. Impedance / admittance / flux/PF test optional;

Parameters

Electrical parameters		
Accuracy		0.02% or 0.05S
Power supply		Single phase AC 85-265V, 50/60Hz or Battery
Output voltage		0-120Vrms
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%
Secondary burden measurement	Range	0.1VA-1000VA
	Accuracy	≤0.02%±0.1VA
CT/PT phase error measurement	Accuracy	±1min (typical) / 3 min (guaranteed)
	Resolution	0.1min
CT ratio error measurement	Range	1-50000
	Accuracy	≤0.02% or 0.05%
Measurable CT Secondary Windings		one(Standard); three (optional)
Polarity		Yes
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)		350 x 270 x 170
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		≤2000m; If the altitude is greater than 2500m, the instrument needs to be customized

Main functions

I. Current Transformer (CT)
1. Excitation curve
2. Current transformer ratio test
3. Polarity
4. 5% and 10% error curve
5. Accuracy limiting factor (ALF)
6. Degauss
7. Currnet transformer Ratio error, phase error
8. Automatic calculation of excitation knee point value
9. Burden test(CT installation current loop burden)
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
22. Impedance Test
23. Admittance Test
24. Power factor Test