

GF1061PT

PORTABLE VOLTAGE TRANSFORMER TESTER

GF1061PT voltage transformer tester is the first portable test equipment (4.8 kg) which offers highly accurate voltage transformer tests. This allows to use GF1061PT not only for electrical performance checks, but also for class verification and calibration. It performs quick tests of all kinds of inductive voltage transformers (VTs or PTs) and capacitive voltage transformers (CVTs) for both protection and metering purposes. Its lightweight design makes it ideal for on-site tests and calibration tasks in power system grids. As a manufacturer or testing lab you can use GF1061PT in your production facilities and test/development labs.

GF106PT voltage transformer test equipment can finish the measurements (M) and protection (P) class PT. Adopt 7 inch touch TFT color LCD, self-equipped mini type printer supporting field printing; supporting to use USB flash disk to download data. The GF1061PT portable PT test equipment is the most complete and easy-to-use testing system for PTs according to IEEE57.13 and IEC60044 & IEC61869 standards.

Features

1. Multi secondary winding test optional;
2. Produce a word or PDF file test report;
3. With battery optional, working one week;
4. PT test, easy to test, all the tests result quickly;
5. Tests such as ratio, phase, polarity, capacitive ratio;
6. Portability: weight 4.8kg, the best light pt analyzer;
7. Parameters such as knee point current and voltage;
8. Parameters such as 10% error curve, 5% error curve;
9. With thermal printer, printing test results in the field;
10. The data can be displayed and analyzed after transferred to PC;
11. Tests of various types of measurement and protection VTs and CVTs;
12. Using of advanced power technology, the test knee point reaches up to 80kV;
13. No external other auxiliary equipment, stand-alone to complete all test items;
14. Storage 10000 groups of test data which would not be lost if the device is power off;



Application

1. Power plant;
2. Oil, Gas company;
3. Electrical laboratory;
4. Railway electric company;
5. Metrological service center;
6. Voltage transformer factory;
7. Electricity power bureau & power company;
8. National Metrology and testing department;
9. Power engineering commissioning company;
10. Electrical Department of industrial and mining enterprises;

Parameters

Electrical parameters

Accuracy	0.02% or 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/80KV	
Accuracy	≤0.02% or 0.05%	
PT voltage level	≤800KV	
Secondary winding DC resistance measurement	Range	0.1-1000Ω
	Accuracy	≤0.05%
Secondary actual load measurement	Range	0.1VA-1000VA
	Accuracy	≤0.02%±0.1VA
PT phase error measurement	Accuracy	±1min (typical) / 3 min (guaranteed)
	Resolution	0.1min
PT ratio error measurement	Range	1-30000
	Accuracy	≤0.05%
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, GB/T 20840.3/4/5, IEC60044-6, IEC61869-1,3, 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)	280 x 250 x 160
Weight (kg)	≤4.8

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

II. Voltage Transformer (PT)

1. Excitation characteristic test
2. Transformation ratio test
3. Polarity
4. Ratio error, phase error
5. Degauss
6. Calculation of knee point value
7. burden test
8. Resistance test