

GF1060C

CURRENT TRANSFORMER AND VOLTAGE TRANSFORMER COMPARATOR

The GF1060C CT and VT comparator is a multifunctional, high-precision current and voltage transformer comparator. It is used to compare the secondary current signal or secondary voltage of a device under test or the digital information of a non-conventional transformer with the reference signal of a standard transformer. It is suitable for testing conventional electronic and non-conventional digital current & voltage measuring transformers.

Application

- 1. Electrical laboratory;
- 2. Metrological service center;
- 3. ISO17025 electrical laboratory;
- 4. Electricity power bureau & power company;
- 5. National Metrology and testing department;
- 6. Power engineering commissioning company;
- 7. Current transformer and voltage transformer factory;
- 8. Electrical Department of industrial and mining enterprises;

GUIGGIC CURRENT TRANSFORMEN AND VOLTAGE TRANSFORMEN AND VOLTAGE TRANSFORMEN COMPARATOR U.O-120V E.O-120V SAML SCHILL U.O-1

Features

- 1. Using traditional transformer calibration equipment to achieve value transmission;
- 2. Using a 24 bit AD chip and 512 times oversampling to maximize bandwidth expansion and improve accuracy;
- 3. Adopting multi gear automatic switching and FIR filter to improve dynamic range and reduce signal-to-noise ratio;
- 4. Customize the testing plan through programming and automatically determine whether the test data is qualified.
- 5. Real time display of waveform, frequency, amplitude, phase and other data, facilitating comprehensive analysis of transformer performance;
- 6. Built in industrial computer with 8-inch color touch screen, easy and convenient operation;
- 7. Equipped with powerful operating software;
- 8. Statistically analyze the average value, variation, extremum, and multiple errors of ratio difference and phase difference, which can be used to analyze transformers conduct comprehensive verification of stability and linearity;
- 9. Can perform multiple harmonic analysis and verify the accuracy of each harmonic of the transformer;
- 10. Can record and replay the entire testing process;
- 11. Equipped with impedance compensation error function.



Standard

- 1. IEC61850-9-2;
- 2. ANSI/IEEE C57.13;
- 3. IEC60044-1, IEC60044-2, IEC60044-6;
- 4. GB1207-2006, GB1208-2006, GB16847-1997;
- 5. IEC61869-1,IEC61869-2,IEC61869-8,IEC61869-10,IEC61869-14

Parameters

Electrical parameters	
Accuracy	0.05%, 0.02%
Power supply	AC 220V±10% or AC 110V±10% 50/60 Hz
Input Range	
Voltage range	100V/v3V, 100V, 110V/v3V, 110V, 120V/v3V, 120V, 150V, 220V (max 265V AC)
Current range	0.2A, 1A, 5A, 10A (max 12A AC)
Small signal 500mV range	0-500mV AC
Small signal 8.5V range	0-8.5V AC
Verification of traditional current transformers	
Accuracy class	0.05 (Ratio error≤0.05%, Phase error≤2')
Standard current measurement range	1%~120%In, 0.05%RD (In=1A, In=5A)
Tested current measurement range	1%~120%In, 0.05%RD (In=1A, In=5A)
Verification of electronic current transformers	
Standard current measurement range	1%~120%In,0.05%RD (In=1A or In=5A)
Tested small signal input voltage range	1%~120%In, 0~8.5V (Un=333mV, 1V)
Verification of traditional voltage transformers	
Accuracy class	0.05 (Ratio error≤0.05%, Phase error≤2')
Standard voltage measurement range	10%~120%In, 0.05%RD (Un =100/V3V,100V)
Tested voltage measurement range	10%~120%In, 0.05%RD (Un =100/V3V,100V)
$\label{lem:verification} Verification of electronic voltage \ transformers$	
Standard voltage measurement range	10%~120%In, 0.05%RD (Un =100/V3V,100V)
Tested small signal input voltage range	1%~120%In,0~8.5V (Un =8.5V)
Tested small signal input voltage range	5%~120%In,0∼8.5V (Un =500mV)
Harmonic Output	
Accuracy	Ratio error: 0.1%Uh or 0.1%Ih (Uh is the effective value of the fundamental wave)
	Phase error: 10' (2-21st)
LCD	8 inch touch TFT color LCD
Operating key	support mouse and keyboard(USB port)
Communication port	USB, RS232, 10/100M Lan



Standards	
Reference standards	GB1207-2006, GB1208-2006, GB16847-1997 IEC60044-1, IEC60044-2, IEC60044-6, IEC61869- 1, IEC61869-2, IEC61869-8, IEC61869-10, IEC61869-14, IEC61850-9-2, 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)	410 x 200 x 340
Weight (kg)	8.5
Environmental conditions	
Relative humidity	Relative humidity 5%-95% not condensing
Operating temperature	0°C to +50°C
Storage temperature	-20°C to +70°C