

GF112V2

Handheld Single Phase Energy Meter Calibrator

GF112V2 is a single phase handheld energy meter accuracy test set in class 0.05, 0.1, 0.2, used for testing all kinds of single phase electronic meters error on site. Wide measurement range from 1mA to 120A and 0 to 600V, frequency range 40.000Hz to 70.000Hz, and also can be used to test alternating current electrical parameters - voltage, current, active power, reactive power, apparent power, harmonics, phase angle, power factor, frequency, energy etc. It can display U & I wave form and vector diagram. Small size, light weight, simple and convenient operation. It is an ideal testing tool for the metrology departments of electricity power companies.

Functions

1. Rotary field indication;
2. External thermal-printer ;
3. Display of vector diagram;
4. 4-quadrant measurement;
5. Energy meter counters testing;
6. Auto/manual/dial-test function;
7. All kinds of parameters input function;
7. Testing of energy and power registers;
8. Display harmonic contents and bar graph;
9. Testing of 1P2W inductive energy meter error;
10. Testing of 1P2W electronic energy meter error;
11. Data logger for all the data of U/I/P/Q/S/PF/F/E;
12. Testing of 1P2W mechanical energy meter error;
13. Oscilloscope function display current & current wave;
14. Frequency, phase angle and power factor measurement;
15. Harmonic analysis for voltage and current up to the 63rd harmonics;
16. Power and energy measurement of active, reactive and apparent energy;



Features

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| 1. Smart optical sampler; | 10. Automatic compensation for clamp on cts; |
| 2. Accuracy class 0.05, 0.1, 0.2; | 11. With bluetooth & USB communication port; |
| 3. 3.5 inch color touch TFT LCD; | 12. Unique long-term and temperature stability; |
| 4. Android APP software optional; | 13. The best light weight handheld meter test set; |
| 5. Easy and user friendly operation; | 14. The Li-battery can work 48 hours continuously; |
| 6. Lithium batteries can be replaced; | 15. One screen displays all the measured parameters; |
| 7. Storage 20000 groups calibrate data; | 16. Wide measuring range 0 -600V /0.001-120A/40-70Hz; |
| 8. With PC software, export test report; | 17. 10A, 100A, 200A, 500A, 1000A clamp on cts optional; |
| 9. ISO17025 standard, with CNAS certificate; | 18. The reference meter and current clamp have separate design; |

Parameters

Electrical parameters	
Accuracy class	0.05%, 0.1%, 0.02%
Active power measurement accuracy	0.05%, 0.1%, 0.02%
Energy measurement accuracy	0.05%, 0.1%, 0.02%
Power supply	AAA type, Li rechargeable battery, 2700mAh, 3.6V it can work 48 hours continuously
Warming-up time	<2 min
Voltage measurement	
U Range	0-600V
Accuracy	0.05%
Harmonics	2nd-63rd
Current measurement(Clamp on cts)	
I Range	1mA-10A, 1mA-120A, 10mA-200A, 60mA-600A, 100mA-1000A
Accuracy	0.05%, 0.1%, 0.2%
Harmonics	2nd-63rd
Clamp on cts diameter	8mm, 13mm, 18mm, 20mm, 30mm, 50mm, 120mm optional
Phase measurement	
Range	0.00°-359.99°
Resolution	0.01°
Accuracy	0.02°
Frequency measurement	
Range	40-70Hz
Resolution	0.001Hz
Accuracy	0.002Hz
Power Factor Measurement	
Range	-1 ~ 0 ~ 1
Resolution	0.0001
Accuracy	0.0002
Energy pulse output	
Pulse constant	8000
Energy Pulse Input	
Input range of pulse constant	1-25000
Pulse input level	5V

Electrical parameters - continued

Function

Register test	Yes
Parameters input	Yes
Harmonic measurement	Yes
Key	Yes, 2PCS
Optical sampler	Yes, 1PC
Pulse cable	Yes, 1PC
PC management software	Yes
Android APP software	Yes, optional
LCD	3.5 inch touch TFT color LCD
Data storage	20000 sets
Data download	Yes, U disk
Communication port	USB & Bluetooth port

Standard

Standard	IEC 62053-21,22, 23; IEC 60736; IR46; ANSI C12.20-2002; JJG 597-2005; JJG596-2012; JJG 1085-2013; JJF 68-2019; DL/T 826-2002; DL/T 1478-2015; DL/T 448-2016
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Safety

Isolation protection	IEC 61010-1:2001
Measurement Category	600 V CAT III
Degree of protection	IP54
Declaration of conformity	CE & CNAS certified

Mechanical parameters

Dimensions (W×D×H) (mm)	155×75×33
Weight (kg)	0.22 (mains) 1.5 (accessory and box)

Environmental conditions

Working temperature	-20°C to 55°C
Working humidity	5%-85%RHD
Storage temperature	-25°C to 70°C
Storage humidity	5%-95%RHD

Accessories

