

GF112V2

Handheld Single Phase Energy Meter Tester

GF112V2 made in GFUVE GROUP, is a high precision single phase handheld energy meter accuracy tester 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 200A 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 equipment for the metrology departments of electricity power companies and electrical service engineers.

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. Data logger for all the parameters;
8. Testing of energy and power registers;
9. All kinds of parameters input function;
10. Display harmonic contents and bar graph;
11. Testing of 1P2W inductive energy meter error;
12. Testing of 1P2W electronic energy meter error;
13. Testing of 1P2W mechanical energy meter error;
14. Oscilloscope function display current & current wave;
15. Frequency, phase angle and power factor measurement;
16. Harmonic analysis for voltage and current up to the 63rd harmonics;
17. Power and energy measurement of active, reactive and apparent energy;



Features

1. Smart optical sampler;
2. U disk download test data;
3. Accuracy class 0.05, 0.1, 0.2;
4. 3.5 inch color touch TFT LCD;
5. Android APP software optional;
6. Easy and user friendly operation;
7. Lithium batteries can be replaced;
8. Storage 20000 groups calibrate data;

- 9. With PC software, export test report;
- 10. Power factor from -1.0000 to 1.0000;
- 11. 1mA accuracy measurement technology;
- 12. ISO17025 standard, with CNAS certificate;
- 13. Automatic compensation for clamp on cts;
- 14. With bluetooth & USB communication port;
- 15. Unique long-term and temperature stability;
- 16. The best light weight handheld meter test set;
- 17. The Li-battery can work 48 hours continuously;
- 18. One screen displays all the measured parameters;
- 19. 10A, 100A, 200A, 500A, 1000A clamp on cts optional;
- 20. Wide measuring range 0 -600V /0.001-120A/40-70Hz;
- 21. The reference meter and current clamp have separate design;

Parameters

Electrical parameters	
Accuracy class	0.05%, 0.1%, 0.2%
Active power measurement accuracy	0.05%, 0.1%, 0.2%
Energy measurement accuracy	0.05%, 0.1%, 0.2%
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

Electrical parameters - continued
Energy pulse output

Pulse constant	8000
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Energy Pulse Input

Input range of pulse constant	1-25000
Pulse input level	5V

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
BT printer	Yes, optional
Android APP software	Yes, optional
LCD	3.5 inch touch TFT color LCD
Data logger	Yes
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 (WxDxH) (mm)	155x75x33
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

Standard Packing List

Item	Name	QTY
1	GF112V2 machine	1PC
2	P18 100A Clamp on ct(Max 120A)	1PC
3	Scanning head	1PC
4	Energy pulse cable(Input and output)	1PC
5	Voltage test cable	2PCS
6	USB communication cable	1PC
7	Crocodile clip	2PCS
8	Operation Manual	1PC
9	Factory test certificate	1PC
10	Rechargeable Li-battery(AA)	3PCS
11	Charger	1PC
12	Portable box	1PC
13	BT printer(Optional)	1PC
14	GF-5A-1P 5A load(Optional)	1PC
15	GF-10A-1P 10A load(Optional)	1PC

Accessories

