

## GF112D

### Single Phase Electricity Meter Tester

GF112D is a single-phase handheld electronic meter test unit in accuracy class 0.05, 0.1 or 0.2, used for testing single phase electricity meters error on site. Wide measurement range from 1mA to 120A and 0 to 600V, and also can be used to test alternating current parameters-voltage, current, active power, reactive power, apparent power, harmonics, phase angle, power factor, frequency, energy etc.

### Features

1. Rotary field indication;
2. Vector diagram display;
3. External thermal-printer;
4. Display of vector diagram;
5. 4-quadrant measurement;
6. Energy meter counters testing;
7. Data logger for all the parameters;
8. Testing of energy and power registers;
9. Testing of 1P2W electricity meter error;
10. Testing of 1P2W inductive energy meter error;
11. Testing of 1P2W mechanical energy meter error;
12. Oscilloscope function display current & current wave;
13. Frequency, phase angle and power factor measurement;
14. Harmonic analysis for voltage and current up to the 63th harmonics;
15. Power and energy measurement of active, reactive and apparent energy;



### Functions

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

## Parameters

Electrical parameters	
Accuracy class	0.05%, 0.1% or 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	
I Range	1mA-120A, 10mA-200A, 60mA-600A
Accuracy	0.05%, 0.1% or 0.2%
Harmonics	2nd-63rd
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	Yes
BT printer	Yes
Data logger	Yes
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; 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 IV
Degree of protection	IP42
Declaration of conformity	CE & CNAS certified

## Mechanical parameters

Dimensions (W×D×H) (mm)	225×61×38 Aperture of current clamp: 30mm or 50mm
Weight (kg)	0.5 (mains) 1.5 (accessory and box)

## Environmental conditions

Working temperature	-10°C to 55°C
Working humidity	5%-85%RHD
Storage temperature	-25°C to 70°C
Storage humidity	5%-95%RHD

## Accessories

