

## GF112

### Handheld Single Phase Watt-hour Meter Tester

GF112 handheld single phase watt-hour meter tester is with human oriented design, hand-held and lightweight. It is suit for electric power departments, measuring and quality examining departments and electric lab to field use. It is capable of testing various types single phase watt-hour meters on site and can also be used for testing alternating current parameters , for example U, I, P, Q, S, F, E etc.

### Application

1. Metrological service center;
2. Power engineering company;
3. Distribution power corporation;
4. Electrical Department of property company;
5. Electricity power bureau & power company;
6. National Metrology and testing department;
7. Electricity meter quality supervision department;
8. Electrical Department of industrial and mining enterprises;



### Features

1. With built-in 5VA load;
2. Energy accumulation check function;
3. Equip with RS232 to connect with PC;
4. With smart optical sampler for energy pulse;
5. Large capacity storage device for mass memory;
6. With 2pcs clamp CT to test ratio of current transformer (Optional);
7. LCD backlight display, English menu, direct viewing and convenient;
8. Field test kinds of inductive, electronic single phase watt-hour meter;
9. Measurement error, voltage, current, power, power factor and frequency at site;



## Parameters

Electrical parameters	
Accuracy	0.2% or 0.5%
Power supply	AC 110-265V 50/60Hz
Warming-up time	< 5 min
Power consumption	≤5VA
Voltage measurement	
Range	0-300V
Accuracy	0.2%
Current measurement	
Range	1mA-20A or 10mA-120A
Accuracy	0.2%
Phase measurement	
Range	0°-359.9°
Resolution	0.1°
Accuracy	0.2°
Frequency measurement	
Range	45-65 Hz
Resolution	0.01Hz
Accuracy	0.01Hz
Power factor measurement	
Range	-1.0000~0 ~ +1.0000
Resolution	0.001
Accuracy	0.01
Electric energy pulse output	
Pulse constant	900, 180
Energy pulse input	
Input range of pulse constant	1-25000
Pulse input level	5V
Function	
CT ratio test	Yes
Register test	Yes
PC management software	Yes
LCD	3.5 green backlight LCD
In-built load	5VA
Data storage	500 sets
External Printer	Yes
Communication port	RS232

### Electrical parameters - continued

#### 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	300 V CAT III
Degree of protection	IP42
Declaration of conformity	CE & CNAS certified

### Mechanical parameters

Dimensions (W×D×H) (mm)	185×67×30
Weight (kg)	1 (mains) 2 (appendix and bag)

### Environmental conditions

Working temperature	-10°C to 50°C
Working humidity	5%- 85%RHD
Storage temperature	-25°C to 70°C
Storage humidity	5% -95%RHD