

GF112

Portable Single Phase Electric Meter Tester

GF112 portable single phase electric meter tester is with human oriented design, hand-held and lightweight. It is suit for electric power Metrological 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. It is one of ideal test tool for engineer testing single phase electricity meter accuracy. The portable reference meter can be used with an active error compensated clamp-on CT 100A (range from 10 mA to 120 A / cable diameter: max. 20 mm).

Features

1. With built-in 5A load;
2. Energy register check function;
3. External thermal printer optional;
4. Voltage and current wave display;
5. Small dimensions and light in weight;
6. Equip with RS232 to connect with PC;
7. With smart optical sampler for energy pulse;
8. Large capacity storage device for mass memory;
9. Field test kinds of inductive, single phase electricity meter;
10. With 2pcs clamp CT to test ratio of current transformer (Optional);
11. LCD backlight display, English menu, direct viewing and convenient;
12. The portable electric meter tester with pulse cable and optical sampler;
13. Measurement error, voltage, current, power, power factor and frequency at site;



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;

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	0.02Hz
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 inch green backlight LCD
In-built load	5A
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; JIG 597-2005; JIG596-2012; JIG 1085-2013; JJF 68-2019; DL/T 826-2002; DL/T 1478-2015; DL/T 448-2016
----------	---

Safety

Isolation protection	IEC 61010-1:2001
Measurement Category	300 V CAT III
Degree of protection	IP53
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