

GF112W

Laboratory High Precision Digital Watt Meter

GF112W made in GFUVE GROUP, is a single phase high precision digital watt meter in class 0.05, 0.1, used for testing all kinds of single phase power system. Wide measurement range from 1mA to 10A or 20A or 100A 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, kWh etc. It can display U & I wave form and vector diagram. Small size design, light weight, simple and convenient operation. It is an ideal high precision watt meter for the electrical laboratory and onsite service engineers.

Functions

- External thermal-printer ;
- Display of vector diagram;
- 4-quadrant measurement;
- 2-31st Harmonic measurement;
- Data logger for all the parameters;
- All kinds of parameters input function;
- Display harmonic contents and bar graph;
- U/I/P/Q/S/F/PF/Phase angle measurement;
- As a high precision watt meter in the laboratory;
- Oscilloscope function display current & current wave;
- Frequency, phase angle and power factor measurement;
- Harmonic analysis for voltage and current up to the 31st harmonics;
- Power and energy measurement of active, reactive and apparent energy;



Features

1. Data hold, record;
2. Accuracy class 0.05, 0.1;
3. With USB cable, USB-01;
4. ACV : 0 to 600V X 0.01V;
5. Data download by U disk;
6. True power measurement;
7. Storage 20000 groups data;
8. Lithium batteries can be replaced;
9. ACV input impedance : 10 Mega OH;
10. True RMS measurement for ACV, ACA;
11. Power factor : 0.0001 to 1.0000 x 0.0001P;
12. Unique long-term and temperature stability;
13. Watt: 0 to 12000W x 1W/0 to 72000W x 1W;
14. Frequency measuring range 40.000-70.000Hz;

- 8. USB/BT computer interface;
- 9. 3.5 inch color touch TFT LCD;
- 10. Easy and user friendly operation;
- 11. Optional data Acquisition software;ISO17025 standard, with CNAS certificate;
- 19. The Li-battery can work 48 hours continuously;
- 20. ACA : 0 to 10.000A/20.000 A/120.000A x 0.001A;
- 21. One screen displays all the measured parameters;
- 22. The best light weight watt meter;

Parameters

Electrical parameters

Accuracy class	0.05%, 0.1%
Active power measurement accuracy	0.05%, 0.1%
Energy measurement accuracy	0.05%, 0.1%
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	0-600.00V
Accuracy	0.05%
Harmonics	2nd-31st
Resolution	0.01V

Current measurement

I Range	0 -10.000A, 0 -20.000A or 0 -120.00A
Accuracy	0.05%
Harmonics	2nd-31st
Resolution	0.001A

Phase measurement

Range	0.00°-359.99°
Resolution	0.01°
Accuracy	0.05°

Frequency measurement

Range	40-70Hz
Resolution	0.001Hz
Accuracy	0.002Hz

Power Factor Measurement

Range	-1.0000 ~ 0 ~ 1.0000
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

Energy(kWh) accumulation	Yes
Harmonic measurement	Yes
Key	Yes, 2PCS
Pulse cable	Yes, 1PC
PC management software	Yes, optional
BT printer	Yes, optional
Android APP software	Yes, optional
LCD	3.5 inch touch TFT color LCD
Data logger	Yes
Data storage	20000 sets
Recorder time interval	1s, 2s...60mins can be setting
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)	0.35 (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