

GF112R

CLAMP POWER DATA LOGGER

GF112R clamp on power data logger is a high precision industrial clamp on power meter in accuracy class 0.2, used for testing all electrical parameter - voltage, current, active power, reactive power, apparent power, harmonics, phase angle, power factor, frequency, energy etc on site. Wide measurement range from up to 600A and 600V, 2-31st harmonics measurement, clamp type industrial design, with 3.5 inch touch TFT color LCD, bluetooth and USB. GF112R have become popular tools primarily for field electrical engineer.

Applications

1. Factory;
2. Power plant;
3. Electrical laboratory;
4. Metrological service center;
5. Power engineering company;
6. Distribution power corporation;
7. Oil, gas, petrochemical company;
8. Power quality check department;
9. Electricity power bureau & power company;
10. Electrical Department of industrial and mining enterprises;



Features

1. Power accuracy class 0.2;
2. Recorder all kinds of electrical parameters;
3. Display of vector diagram;
4. With bluetooth & USB communication port;
5. 3.5 inch color touch TFT LCD;
6. Automatic compensation for current clamp;
7. Low power design technology;
8. Wide measuring range 0 -600V /0.001-600A;
9. Easy and user friendly operation;
10. Unique long-term and temperature stability;
11. 2-31st Harmonics measurement;
12. Recorder time interval from 1s to 60 minutes;
13. Storage 5000 groups calibrate data;
14. The Li-battery can work 48 hours continuously;
15. With APP software, export test report;
16. One screen displays all the measured parameters;
17. Lithium batteries/3AAA can be replaced;
18. Oscilloscope function display current & current wave;
19. Measure U, I, P, Q, S, E, PF, frequency etc;
20. The meter and current clamp have Integration design;
21. Recorder data can be download by U disk;

Parameters

Electrical parameters	
Accuracy	0.2%
Power supply	AAA type, 3PCS, Li rechargeable battery, 2700mAh, 3.6V it can work 48 hours continuously
Warming-up time	<2 min
Voltage measurement	
U Range	0-700V
Accuracy	0.1%
Harmonics	2nd-31st
Current measurement	
I Range	1mA-120A or 0mA-600A
Accuracy	0.2%
Harmonics	2nd-31st
Phase measurement	
Range	0.00°-359.99°
Resolution	0.01°
Accuracy	0.05°
Power measurement	
Range	0-72KV or 0-360kW
Accuracy	0.2%
Frequency measurement	
Range	40-70Hz
Resolution	0.001Hz
Accuracy	0.002Hz
Power Factor Measurement	
Range	-1 ~ 0 ~ 1
Resolution	0.0001
Accuracy	0.0002
Harmonics	
Harmonics order	2-31 times
Harmonics Content	Yes, 0-100%
Harmonics Bar graph	Yes
Functions	
Key	2pcs (hold, power)
PC management software	Yes
Android APP	Optional

Electrical parameters - continued

Functions - continued

LCD	3.5 inch touch TFT color LCD
RMS	Yes
Waveform measurement	Yes
Recorder parameter	U, I, P, Q, S, F, PF, Phase angle
Recorder time interval setting	1s - 60minutes
Data storage	5000 sets
Communication port	USB & Bluetooth port

Standard

Standard	IEC61010-1, IEC61010-2-32 600V CAT IV, CAT III 1000 V, IEC61010-2-31, IEC60529, pollution grade 2, EN/IEC 61326; IEC/EN 61557-13; IEC 61000-4-7, IEEE 519; IEC 61000-4-15;
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Safety

Isolation protection	IEC 61010-1:2001
Measurement Category	600V CAT IV
Degree of protection	IP50
Declaration of conformity	CE & UL certified

Mechanical parameters

Dimensions (W×D×H) (mm)	225×61×38 , 235×61×38 Aperture of current clamp: 30mm or 50mm
Weight (kg)	0.35 or 0.5 (mains) 1 or 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