

GF112R

CLAMP ON POWER DATA LOGGER

GF112R clamp on power data logger is a high precision industrial clamp on power meter in accuracy class 0.05, 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 720V, 2-31st harmonics measurement, clamp type industrial design, with 3.5 inch touch TFT color LCD, bluetooth and USB, Power data logger can be set from 1s to 60minutes.

GF112R clamp power data logger have become popular tools primarily for field electrical engineer.

Applications

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



Features

1. Display of vector diagram;
2. Power accuracy class 0.05;
3. 3.5 inch color touch TFT LCD;
4. Low power design technology;
5. 2-31st Harmonics measurement;
6. Easy and user friendly operation;
7. Storage 20000 groups calibrate data;
8. With APP software, export test report;
9. Lithium batteries/3AAA can be replaced;
10. Measure U, I, P, Q, S, E, PF, frequency etc;
11. Recorder data can be download by U disk;
12. Recorder all kinds of electrical parameters;
13. With bluetooth & USB communication port;
14. Automatic compensation for current clamp;
15. Unique long-term and temperature stability;
16. Wide measuring range 0 -720V /0.001-600A;
17. Recorder time interval from 1s to 60 minutes;
18. The Li-battery can work 48 hours continuously;
19. One screen displays all the measured parameters;
20. Oscilloscope function display current & current wave;
21. The meter and current clamp have Integration design;

Parameters

Electrical parameters	
Accuracy	0.05%
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	0-720V
Accuracy	0.05%
Harmonics	2nd-31st
Current measurement	
I Range	1mA-120A or 0mA-600A
Accuracy	0.05%
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	0.05%
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

Electrical parameters - continued
Functions

Key	2pcs (hold, power)
PC management software	Yes
Android APP	Optional
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	20000 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