

GF311

Basic Three Phase Handheld Power Quality Analyzer

GF311 PQA is low cost basic power quality analyzer, standard version 480V/10A/45-65Hz/0-359.9°, class 0.5. It is a simple electrical test tool for electric engineers, applied to electric power dispatching center, relay protection department or relay protection in power plant. Its metric division class makes it suitable for petroleum, railways and the iron and steel industries also.

Features

1. Harmonic measurement from 2nd to 63rd;
2. Display vector map for the use of user directly;
3. Phase angle measurement range from 0°-359.9° ;
4. Voltage and current of each channel are isolated;
5. All electrical parameters are displayed on one screen.
6. Range switches automatically, software for be calibrated.
7. Small volume, light weight and the operation is simple, convenient;
8. Horizontal liquid crystal big screen TFT displays all electric parameters;
9. It can store data; data can be using computer software to upload for management;
10. The smallest current it can measure is 1 mA, 2 mA above can display vector diagram;
11. DSP digital signal processing chip, wide measuring range, high accuracy, good stability;
12. Simultaneously measuring three-phase voltages, current, power, frequency, power factor, phase, etc;



Application

- | | |
|------------------------|--------------------------------|
| 1. Factory; | 5. Hydroelectric power; |
| 2. Power plant; | 6. Renewable power plants; |
| 3. Oil, Gas company; | 7. Electricity power company; |
| 4. Power distribution; | 8. Photovoltaic power station; |

Parameters

Electrical parameters	
Accuracy class	0.5%
Power supply	AC 85-265V 50/60Hz or Li-battery 5000mAh
Communication Port	RS232
Warming-up time	< 5min
Power consumption	≤5VA

Electrical parameters - continued
Voltage measurement

U1, U2, U3 Range	0-480V
Resolution	0.001V
Accuracy	0.1%

Current measurement

I1, I2, I3 Range	1mA-10A, 10mA-100A, 50mA-200A or 50mA-500A
Resolution	0.5mA
Accuracy	0.5%

Active power measurement

Active accuracy	0.5%
-----------------	------

Reactive power measurement

Accuracy	1%
----------	----

Phase measurement

Range	0°-359.9°
Resolution	0.001°
Accuracy	0.1°

Frequency measurement

Range	45-65Hz
Resolution	0.001Hz
Accuracy	0.01Hz

Power factor measurement

Range	-1 to 0 to +1
Resolution	0.0001
Accuracy	0.01

Harmonic measurement

voltage and current	2nd - 63rd
---------------------	------------

Mechanical parameters

Dimensions (W×D×H) (mm)	245×162×60
Weight (kg)	1 (mains) 6.5 (appendix and box)

Environmental conditions

Working temperature	-10°C to 55°C
Working humidity	15%-85%RHD
Storage temperature	-25°C to 70°C
Storage humidity	5%-95%RHD