

GF112B

Single Phase kWh Meter Calibrator

GF112B Single Phase kWh Meter Calibrator is suitable to test various types single phase kWh meters error on site and also can be used to test alternating current parameters - U, I, P, Q, S, F, E etc.

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;



Features

1. Easy and user friendly operation;
2. Micro-multifunction optical sampler;
3. Unique long-term and temperature stability;
4. Displayed by colorful and 2.8 inch touch TFT LCD;
5. One screen displays all the measured parameters;
6. The AAA Li-battery can work 20 hours continuously;
7. Oscilloscope function display current & current wave;
8. The meter and current clamp have Integration design;
9. 16 bit high accuracy AD switch 32 bit ARM processor core;
10. Automatically record and save 1000 groups calibrate data;
11. Manually/automatically test electric single phase kWh meters;
12. Manually/automatically test inductive single phase kWh meters;
13. Testing parameters: active power, phase angle of voltage/current and frequency etc;
14. With wide voltage measuring range 0 -300V and current measuring range 0.001-120A;
15. The current clamp has automatic compensation and calibration function with accuracy class 0.2%;

Parameters

| Electrical parameters | |
|-----------------------------------|---|
| Accuracy class | 0.2% |
| Active power measurement accuracy | 0.2%, 0.5% |
| Energy measurement accuracy | 0.2%, 0.5% |
| Power supply | AAA type, Li rechargeable battery, 1800mAh, 3.6V it can work 20 hours continuously |
| Warming-up time | <5 min |
| Voltage measurement | |
| U Range | 0-300V |
| Accuracy | 0.2% |
| Current measurement | |
| I Range | 1mA-120A |
| Accuracy | 0.2% |
| Phase measurement | |
| Range | 0.00°-359.99° |
| Resolution | 0.01° |
| Accuracy | 0.05° |
| Frequency measurement | |
| Range | 45-65Hz |
| Resolution | 0.001Hz |
| Accuracy | 0.005Hz |
| Power Factor Measurement | |
| Range | -1 ~ 0 ~ 1 |
| Resolution | 0.001 |
| Accuracy | 0.002 |
| Energy pulse output | |
| Pulse constant | 25000 |
| Energy Pulse Input | |
| Input range of pulse constant | 1-25000 |
| Pulse input level | 5V |
| Function | |
| Register test | Yes |
| PC management software | Yes |
| LCD | 2.8 inch touch TFT color LCD |
| Data storage | 1000 sets |
| Communication port | RS232 |

Electrical parameters - continued

Standard

| | |
|----------|---|
| Standard | IEC 62053-21,22, 23; IEC 60736; 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 |
|----------|---|

Safety

| | |
|---------------------------|---------------------|
| Isolation protection | IEC 61010-1:2001 |
| Measurement Category | 300 V CAT III |
| Degree of protection | IP42 |
| Declaration of conformity | CE & CNAS certified |

Mechanical parameters

| | |
|-------------------------|--|
| Dimensions (W×D×H) (mm) | 215×60×30 Aperture of current clamp: 20mm |
| Weight (kg) | 0.25 (mains) 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 |

Accessories

