

GF312B

Portable Three Phase Energy Meter Calibrator with Printer

GF312B portable three phase energy meter calibrator with printer is used to calibrate three phase, single phase, active and reactive energy meters. And it also can be used as voltage, current and power meter to measure AC parameters of three phase power line. It can measure wave distortion factor and 2nd to 63th harmonic wave.



Features

- 1. Three phase active or reactive electricity energy meter;
- 2. Calibrate three phase, single phase, active or reactive meter error;
- 3. Measure U(voltage) of three phase or single phase;
- 4. Measure I(current) of three phase or single phase;
- 5. Measure active power of three phase or single phase;
- 6. Measure reactive power of three phase or single phase;
- 7. Measure apparent power of three phase or single phase;
- 8. Measure power factor of three phase or single phase;
- 9. Measure phase angle between voltage and current;
- 10. Measure frequency of power line;
- 11. Display vector diagram;
- 12. Display waveform of U and I;
- 13. Analyze and display content of harmonic of U and I;
- 14. Store and look measured data;
- 15. Optional 5A, 20A, 100A, 500A, 1000A, 2000A, 3000A current clamp;
- 16. Measure CT variable ratio;
- 17. Print the data of measurement on site.



Parameters

Electrical parameters	
Accuracy	0.05%, 0.1%, 0.2%
Power supply	220V ± 10% or 110V ± 10%, 50/60Hz ± 2Hz
Test Voltage	
Range	0V-600V



Test Voltage - continued	
Error	±0.05% (30V-600V) ±0.1% (5V-30V)
Harmonic	2 nd -63 st
Test Current	2 03
Range (direct connection)	20mA-20A
Error (direct connection)	±0.05% (100mA-20A) ±0.1% (20mA-100mA)
Range (Clamp CT)	10mA-3000A
Error (Clamp CT)	±0.2% (100mA-3000A) ±0.5% (10mA-100mA)
Harmonic	2 nd -63 st
Power measure error	
Active power (direct connection)	±0.05% (0.1A-20A) ±0.1% (0.02A-0.1A)
Reactive power (direct connection)	±0.1% (0.1A-20A)
Energy measure error	
Active energy (direct connection)	±0.05% (0.1A-20A) ±0.1% (0.02A-0.1A)
Reactive energy (direct connection)	±0.1% (0.1A-20A)
Phase angle	
Range	0°~360°
Resolution	0.01°
Error	±0.05°
Frequency	
Range	45Hz-65Hz
Resolution	0.001Hz
Accuracy	0.005Hz
Power factor	
Range	-1 ~0 ~1
Resolution	0.0001
Error	0.0005
Pulse output	
Energy constant	180000imp/kWh, 1800imp/kWh, 18imp/kWh
Pulse ratio	1:1



Electrical parameters - continued	
Pulse input	
Input channel	1
Input level	5-24V
Input frequency	Max. 2MHz
Display	
Resolution	6"TFT (640×480)
Function	
Vector diagram	Yes
Waveform	Yes
Energy accumulation	Yes
Communication port	RS232
Communication with PC	Yes
Mechanical parameters	
Dimensions (W×H×D) (mm)	390×200×160
Host Weight (mm)	3
Weight (including Accessories 3pcs 100A cla	amp CT) (kg) 12
Environmental conditions	
Ambient temperature	-10°C to 40°C
Relative humidity	30%-85%