GF335

THREE PHASE PORTABLE HARMONIC POWER QUALITY ANALYZER

GF335 three phase harmonic power analyzer with 1000A clamp on ct offer the best ability in power quality analysis, GF335 portable power quality analyzer help locate, predict, prevent and troubleshoot power quality problems in three phase and single phase power distribution systems. Additionally, GFUVE patented energy loss algorithm, unified power measurement, measuring and counting energy losses due to harmonics and unbalance issues, allowing the user to pinpoint the origin of energy losses in the system. GF335 Three Phase Power Analyzer is suitable for Power Company, technical supervision departments, Industrial, mining, petroleum as well as chemicals, home appliances and manufacturing enterprises.

Features

1. Ultra-compact design, portable, small size, light weight.
2. The usage of multi-channel power supply, AC power supply can also be rechargeable battery-powered machine.
3. High accuracy instrument, good stability, and wide range of voltage monitoring 0-1200V, current 1mA - 1000A.
4. It can be divided into direct current clamp measurements and precision measurements.
5. It can measure three-phase voltage , current, active power, reactive power, power factor , frequency, phase , etc.
6. Showing the AC waveform, vector diagram and determining the three-phase three-wire connection errors.
7. It can measure harmonic content from 2 to 64 and the harmonic analysis.
8. The measured data can record, query and upload print.
9. Instrument calibration by using software to facilitate the correction instrument variation.

Functions

1. Measuring energy consumption values - the precise timing measurements of electrical equipment for short-term energy consumption; energy resolution: milli-watts; time resolution: milli-second; they are difficult to available for common instrument of power. The functions are used by pumping, cranes, air conditioning and other equipment in a work cycle connected power consumption.

2. The value of the measurement process- it can be recorded and tested continuously voltage, current, active power, reactive power and other electrical parameter values and curves in a dynamic process and graphically display.
3. Measurement the instantaneous values - including the exchange parameters: U, I, P, Q, PF, phase angle, frequency, harmonics, etc.
4. Measurement of harmonics - measurement / display voltage and current waveforms and harmonic bar graph.
5. Check Meter - real live load calibration of various single-phase, three-phase energy meters.
6. Vector analysis - based on the voltage, current, phase error of judgment wiring, display vector graphics.

Parameters

Items	Range	Resolution	Accuracy1	Accuracy2	Remarks
Voltage	0-1200V	0.001V	0.1%	0.05%	2 ranges
Current	0-12A	0.001A	0.1%	0.05%	3 ranges
Clamp-on	0.01-100A	0.01A	0.15%	0.15%	Option(2)
Clamp-on	0.1-1000A	0.1A	0.2%	0.20%	
Frequency	45-65Hz	0.001Hz	0.005Hz	0.002Hz	6 bit display
Active power	0 to ±Umax x Imax	0.01W	0.5%	0.2%	6 bit display
Reactive power	0 to ±Umax x Imax	0.01Var	1%	0.5%	6 bit display
Apparent power	0 to ±Umax x Imax	0.01VA	1%	0.5%	6 bit display
Active energy			0.5%	0.2%	
Reactive energy			1%	0.5%	
Harmonic	2nd-64th		0.5%	0.2%	
Power factor	0 to ±0.9999	0.0001	±0.001	±0.0005	6 bit display
Phase	0-359.999°	0.005°	±0.05°	±0.02°	6 bit display

(1) Directly test
(2) Clamp-on 1000A,3000A,5000A is optional.

Electrical parameters	
Power supply	One-phase power supply (85-265VAC/45-70Hz) Lithium battery, 5000mAh
Communication port	RS232
Energy constant	3600imp/kWh, 360000imp/kWhx4
Frequency Influence	≤20ppm/Hz
Pulse Interface	TTL energyx6

Mechanical parameters	
Main machine (L×W×H) (mm)	240×157×60
Weight (kg)	1.5
Carrier dimension (L×W×H) (mm)	470×380×220
Carrier weight (kg)	10.6 (Including three clamp-on (100A), wires and software)
Environmental conditions	
Environment	-10 to +55°C, 15-85%RHD
Altitude (m)	⩽3500
Temperature	-20°C to 65°C
Temperature	≤25ppm/°C (U/I), ≤50ppm/°C (others)