

GF312V2

Portable Multifunction Energy Meter Calibrator

GF312V2 portable three phase multifunction energy meter calibrator is with comfort design, small size, and light weight. It is suit for electric power departments, measuring and quality examining departments and electric lab to field use.



Features

1. High accuracy 0.05%
2. Screen capture function
3. Input two pulse signal for master and slave meter synchronously calibration
4. Large size display screen, direct viewing and convenient
5. Internal communication port for PC control
6. Multiple power supply for different testing occasion
7. Large capacity storage device for mass memory

Parameters

Electrical parameters	
Accuracy class	0.05%, 0.1%
Power Supply	External power, 220V /110V, 50/60Hz Phase voltage supply 45-450V, 50/60Hz Li-Battery supply
Test Voltage	
Range	30-560V
Error	±0.05%
Harmonic	2 nd -51 st
Test Current	
Range (direct connection)	0.01-10A
Range (clamp CT)	5A,100A,500A,1000A,2000A (option)
Error (direct connection)	±0.05%
Error (clamp CT)	±0.2% (5A, 100A) ±0.5% (other)
Harmonic	2 nd -51 st

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Electrical parameters-continued
Power measure error

Active power (direct connection)	±0.05%
Active power (clamp CT)	±0.2% (5A, 100A) ±0.5% (other)
Reactive power (direct connection)	±0.1%
Reactive power (clamp CT)	±0.2% (5A, 100A) ±0.5% (other)

Energy measure error

Active energy (direct connection)	±0.05%
Active energy (clamp CT)	±0.2% (5A, 100A) ±0.5% (other)
Reactive energy (direct connection)	±0.1%
Reactive energy (clamp CT)	±0.2% (5A, 100A) ±0.5% (other)

Phase angle

Range	0°-360°
Resolution	0.01°
Error	±0.05°

Frequency

Range	45Hz-65Hz
Resolution	0.001Hz
Error	0.002Hz

Pulse output

Energy constant	25000
Pulse ratio	1:1
Output level	5V

Pulse input

Input channel	2
Input level	5-10V
Input frequency	Max. 100Hz

Display

Resolution	7" TFT color (480×234)
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Function

Vector diagram	Yes
Waveform	Yes
Energy accumulation	Yes
CT ratio test	Yes
Local parameter input	Yes

Electrical parameters-continued
Function-continued

Wiring emulation	Yes
Self-calibration	Yes
Recorder check	Yes
Data storage	Yes
Data storage qty	5000
External extend memory	Yes
Screen printing	Yes
Communication port	USB/RS232
Communication with PC	Yes
Upload data	Yes
External mini printer	Yes
External keyboard	Yes

Mechanical parameters

Dimensions (W×H×D) (mm)	245×168×70
Weight (kg)	1.8

Environmental conditions

Ambient temperature	-25°C to +45°C
Relative humidity	30%-95%

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