

GF333

Multi-function Standard Meter

GF333 can be used as a calibration device standard meter, also as a testing calibrator in measurement test center of grid corporation, power company and measurement department in power plant, national levels of measurement mechanism, quality inspection departments, research institutes, tertiary institutions, industrial and mining enterprises, electric energy meter and electrical instrument production enterprises etc.



Features

1. Measure the AC voltage, current, active power, reactive power, frequency, phase angle and power factor etc
2. Measure the AC voltage, current 2~31 harmonic content and waveform distortion degree
3. Measure active power energy error, reactive power energy error, the maximum output pulse frequency is to 2 MHz
4. Measure calibration device of voltage, current, power stability
5. Measure calibration device the standard deviation of estimate
6. Measure the voltage of the calibration device three-phase symmetric degrees, the current of three three-phase symmetric degree
7. Measure calibration device of the magnetic induction
8. Measure DC voltage and DC current
9. Transducer measurement
10. With RS232 interface, it can be controlled by PC operation
11. Core part uses the 32 bit DSP and 16 bit low power and high speed DAC consists of high accuracy AC collector
12. Using 6.5 inch TFT color LCD screen, character display clear chart. Have the advantages of wide measuring range, high precision, stable and reliable operation, simple operation etc

Parameters

Electrical parameters	
Accuracy class	0.02%, 0.05%
Power supply	AC 220 V \pm 10% or 110 V \pm 10%, 50/60Hz
Power consumption	<30VA
Warming-up time	<30min

Electrical parameters - continued	
Voltage measurement	
U1, U2,U3	6.25V, 12.5V, 25V, 50V, 100V, 200V, 400V, 800V (switch automatically), max 1000V
Range	(0 -120%) RG
Resolution	0.01% RG
Accuracy	0.02% RD or 0.05% RD
Current measurement	
I1, I2, I3	0.25, 0.5, 1, 2.5, 5, 10, 25, 50, 100A(switch automatically)
Range	(0-120%) RG
Resolution	0.01% RG
Accuracy	0.02% RD or 0.05% RD
Power measurement	
Active accuracy	0.02% RD or 0.05% RD
Reactive accuracy	0.05% RD or 0.1% RD
Apparent accuracy	0.02% RD or 0.05% RD
Energy measurement	
Active accuracy	0.02% RD or 0.05% RD
Reactive accuracy	0.05% RD or 0.1% RD
Phase measurement	
Range	0.00°-359.99°
Resolution	0.001°
Accuracy	0.02° (voltage \geq 50V and current \geq 250mA)
Frequency measurement	
Range	45-65Hz
Resolution	0.001Hz
Accuracy	0.002Hz
Power factor measurement	
Range	-1.0 ~ 0 ~ +1.0
Resolution	0.0001
Accuracy	0.0005
Electric energy pulse output	
Pulse constant range	1-2880000000
Output frequency of max. pulse	600 kHz
Load capacity	> 2mA
Default pulse output frequency	10K Hz - 600 kHz
Energy pulse Input	
Input range of pulse constant	600-700000
Setting range of test pulse	1-999999999

Electrical parameters - continued

Energy pulse Input - continued

Max. pulse receiving frequency	2MHz
Pulse input level	5V

Voltage/current harmonics measurement

Times	2-31
Error	0.05%
Distortion degree error	0.05%

Transducer measurement

DC voltage range	$\pm 1, \pm 5, \pm 10, \pm 20$ V
Accuracy	0.01%
DC current range	$\pm 1, \pm 2.5, \pm 5, \pm 10, \pm 20$ mA
Accuracy	0.01%
Ripple error	1%

DC measurements (option)

DC voltage	50V, 100V, 200V, 400V, 800V (switch automatically), max 1
Range	(0-120%) RG
Resolution	0.01% RG
Accuracy	0.02% RD
DC current	0.1A, 0.3A, 1A, 3A, 10A, 30 A (switch automatically)
Range	(0-120%) RG
Resolution	0.01% RG
Accuracy	0.02% RD

Mechanical parameters

Dimensions (W×H×D) (mm)	440×360×160
Weight (kg)	10

Environmental conditions

Operating temperature	10°C to 30°C
Relative humidity	≤ 85%