

GF6018A

Clamp Type Multimeter Calibrator

The equipment is compliance with national verification regulation: JJG124—2005 "Ammeter, voltmeter, power meter and resistance meter verification rules" and related national standards. 0.05 single-phase AC/DC standard source, can verify magnitude 0.2 and the following AC/DC voltmeter, ammeter, frequency meter, resistance meter. The source signals by using DSP and 16-bit high-speed analog-to-digital converters of controllable sine wave, the distorted wave signal source.

The equipment comes with RS-232 interface, can be connected with PC to a semi-automatic verification system. It has precise interface and multi-functions including verification, storage and query.



The equipment adopts color LCD screen, chart character display is clear, with high precision, stable and reliable, convenient operation and flexible characteristics.

Features

- 1. It can be semi-automatic or manual inspection of analog multi meter, clamp type current meter, all kinds of electric meter, (voltmeter, ammeter, frequency meters, resistance meter) basic error.
- 2. The equipment can be generated with 2-31 harmonic wave, harmonic number, order, amplitude and harmonic phase of fundamental wave can be programmed.
- 3. Power amplifier working frequency range is 40Hz-1KHZ, has a good linear. Current amplifier is constant current source; voltage amplifier is constant voltage source. Because of light weight, this device is more suitable for field use.
- 4. With RS-232 interface, this device is controlled by PC through the PC software (optional), can be automatic or manual inspection, and the results are processing and management
- 5. Has a non-volatile memory, it can store 500 pieces of the raw data of tested meter, for access and upload.

Parameters

Electrical parameters			
Power supply	Single phase AC 220V±10% or 110V±10%, 50/60HzAC		
AC Voltage output			
Range	200mV, 400mV, 2000mV, 4000mV, 20V, 100V, 200V, 500V, 1000V		



AC Voltage output - conti	nued	
Range 20V-1000V	Accuracy	±(0.03%RD+0.02%FS)
	Stability	≤0.01% FS /60s
Range 200mV-4000mV	Accuracy	±(0.3%RD+0.2%FS)
	Stability	≤0.04% FS /60s
Load capacity		20VA
Waveform distortion		≤0.3%
Adjustable Range		0-120% FS (1000V not included)
Fineness		5×10 ⁻⁵
AC Current Output		
Range		2mA, 4mA, 20mA, 40mA, 0.2A, 0.5A, 2A, 5A, 10A, 20A
Range 0.2A-20A	Accuracy	±(0.03%RD+0.02%FS)
	Stability	≤0.01% FS /60s
Range 2mA-40mA	Accuracy	±(0.3%RD+0.2%FS)
	Stability	≤0.04% FS /60s
Load capacity		20VA
Waveform distortion		≤0.3%
Adjustable Range		0-120% FS
Fineness		5×10 ⁻⁵
Frequency Output		
Range		45-65Hz
Fineness		0.001Hz
Accuracy		0.01Hz
Harmonic Wave		
Times		2-31
Extent		0-20%
Each harmonic phase fineness		0.01·N (N is harmonic order)
DC voltage output		
Range		200mV, 400mV, 2000mV, 4000mV,
		20V, 40V, 100V, 200V, 400V, 1000V
Load capacity		20W
Adjustable range		0-110% FS (1000V not included)
Adjustable fineness		5×10 ⁻⁵
Stability		≤0.01% FS /60s (peak-peak value)
Accuracy		±(0.03%RD+0.02%FS)
Ripple wave		≤1% FS



Electrical parameters -	continued	
DC current output		
Range		20uA, 40uA, 200uA, 400uA, 2mA, 4mA,
		20mA, 40mA, 0.2A, 1A, 2.5A, 5A, 10A, 20A
Load capacity		20W
Adjustable Range		0-110% FS (1000V not included)
Adjustable Fineness		5×10 ⁻⁵
Stability		≤0.01% FS /60s (peak-peak value)
Accuracy		±(0.06%RD+0.04%FS)
Ripple wave		≤1% FS
Resistance box		
Range		0-200Ω, 200-400Ω, 0-2kΩ, 2kΩ-4kΩ, 0-20kΩ, 20kΩ-40kΩ,
		0-200kΩ, 200kΩ-400kΩ, 0-2ΜΩ, 2ΜΩ-4ΜΩ
Fineness		0.02%
Range 0-2k Ω , 0-20k Ω , 0-20	0kΩ	
Range 0-2kΩ	Adjustable Range	0-100%FS
	Accuracy	±(0.12%RD+0.08%FS)
Range 0-200Ω,0-2MΩ	Adjustable Range	0-100% FS
	Accuracy	±(0.3%RD+0.2%FS)
Range $2k\Omega$ - $4k\Omega$, $20k\Omega$ - $40k\Omega$	Ω, 200kΩ-400kΩ	
Range 2kΩ-4kΩ	Adjustable Range	5%-100%FS
	Accuracy	±(0.12%RD+0.08%FS)
Range 200-400Ω,	Adjustable Range	5%-100% FS
2ΜΩ-4ΜΩ	Accuracy	±(0.3%RD+0.2%FS)
Clamp meter range		
200A	Accuracy	±0.2%
600A	Accuracy	±0.5%
1000A	Accuracy	±1%
Dot frequency square wave	output	
Range		1kHz, 5kHz, 10kHz, 50kHz, 100kHz, 200kHz, 1000kHz
Square wave amplitude		4.5V
Setting accuracy		5×10 ⁻⁵
Mechanical parameter	S	
Dimension (L×W×H) (mm)		440x360x160
Weight (kg)		12
Environmental condition	ons	
Operating temperature		20°C±10°C
Relative humidity		≤85%RH