

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

Архангельск (8182)63-90-72
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 Челябинск (351)202-03-61
 Череповец (8202)49-02-64
 Ярославль (4852)69-52-93

Electrical parameters - continued
AC Voltage output - continued

Range 20V-1000V	Accuracy	$\pm(0.03\%RD+0.02\%FS)$
	Stability	$\leq 0.01\% FS / 60s$
Range 200mV-4000mV	Accuracy	$\pm(0.3\%RD+0.2\%FS)$
	Stability	$\leq 0.04\% FS / 60s$
Load capacity		20VA
Waveform distortion		$\leq 0.3\%$
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	$\pm(0.03\%RD+0.02\%FS)$
	Stability	$\leq 0.01\% FS / 60s$
Range 2mA-40mA	Accuracy	$\pm(0.3\%RD+0.2\%FS)$
	Stability	$\leq 0.04\% FS / 60s$
Load capacity		20VA
Waveform distortion		$\leq 0.3\%$
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		$0.01 \cdot N$ (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		$\leq 0.01\% FS / 60s$ (peak-peak value)
Accuracy		$\pm(0.03\%RD+0.02\%FS)$
Ripple wave		$\leq 1\% FS$

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	$\leq 0.01\%$ FS /60s (peak-peak value)
Accuracy	$\pm(0.06\%RD+0.04\%FS)$
Ripple wave	$\leq 1\%$ FS

Resistance box

Range	0-200Ω, 200-400Ω, 0-2kΩ, 2kΩ-4kΩ, 0-20kΩ, 20kΩ-40kΩ, 0-200kΩ, 200kΩ-400kΩ, 0-2MΩ, 2MΩ-4MΩ	
Fineness	0.02%	
Range 0-2kΩ, 0-20kΩ, 0-200kΩ		
Range 0-2kΩ	Adjustable Range	0-100%FS
	Accuracy	$\pm(0.12\%RD+0.08\%FS)$
Range 0-200Ω,0-2MΩ	Adjustable Range	0-100% FS
	Accuracy	$\pm(0.3\%RD+0.2\%FS)$
Range 2kΩ-4kΩ, 20kΩ-40kΩ, 200kΩ-400kΩ		
Range 2kΩ-4kΩ	Adjustable Range	5%-100%FS
	Accuracy	$\pm(0.12\%RD+0.08\%FS)$
Range 200-400Ω, 2MΩ-4MΩ	Adjustable Range	5%-100% FS
	Accuracy	$\pm(0.3\%RD+0.2\%FS)$

Clamp meter range

200A	Accuracy	$\pm 0.2\%$
600A	Accuracy	$\pm 0.5\%$
1000A	Accuracy	$\pm 1\%$

Dot frequency square wave output

Range	1kHz, 5kHz, 10kHz, 50kHz, 100kHz, 200kHz, 1000kHz
Square wave amplitude	4.5V
Setting accuracy	5×10^{-5}

Mechanical parameters

Dimension (LxWxH) (mm)	440x360x160
Weight (kg)	12

Environmental conditions

Operating temperature	20°C \pm 10°C
Relative humidity	$\leq 85\%$ RH

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