

RJ3XX High Precision Power Analyzer



Product Description

RJ311series of Precision Power Analyzers are divided into RJ311/310/330/340/360, individually corresponding to 1-channel, 3-channel, 4-channel, and 6-channel, and each channel has the same performance indicators, and the multi-channels can be combined and operated under the control of master control CPU, for example the realization of three-phase measurement, input/output efficiency measurement, etc. This series of power analyzer has high precision, fast sampling, and many functions, in addition to the basic electric parameter measurement function, there are harmonic analysis function, integral function, variable ratio function, data storage/call function, communication function, etc., which can be applied to the enterprise quality inspection, R & D department and third-party testing department with high precision requirements.

Key Features

- Input signal bandwidth: DC, 0.5Hz~100 kHz Digital tube display;
- Sampling frequency:100kS/s;
- Basic accuracy: $\pm(0.05\%rdg.+0.1\%f.s.)$;
- Current measurement: 2A/5A/20A/50A optional;
- With voltage and current harmonic analysis function;
- Waveform and trend graph can be displayed;

National Service hotline: 4008-515-616

No.38 Longfei Road, Chengyang District, Qingdao

Official website: www.ruijie-ate.com

Model selection

Model	Channel	Display mode
RJ311	1	5.6-inch LCD
RJ310	1	
RJ330	3	
RJ340	4	
RJ360	6	

Specification

Model	RJ311	RJ310	RJ330	RJ340	RJ360
Input Signal Bandwidth	DC,0.5Hz~100kHz				
Basic Accuracy	$\pm(0.05\%rdg.+0.1\%f.s.)$				
Sampling frequency	100kS/s				
Measuring channel	1		1,2,3	1~4	1~6
Measurement range	Voltage(V)	15/30/60/100/150/300/600/1000[V]			
	Current (A). Direct Input	2A card: 5m/10m/20m/50m/0.1/0.2/0.5/1/2[A] 5A card: 10m/20m/50m/0.1/0.2/0.5/1/2/5[A] 20A card 5m/50m/0.5/5/20[A] 50A card 0.5/5/20/50[A]			
	Power (W)	2A card: 5A card: 20A card: 20A [W] card: 50A card: 0.1mW~440W@220V,PF=0.01~1 0.2mW~1.1kW@220V,PF=0.01~1 1.1mW~4.4kW@220V,PF=0.01~1 0.1mW~4.4kW@220V,PF=0.01~1 22mW~11kW@220V,PF=0.01~1			
Measurement Accuracy	Voltage Measurement Accuracy	DC	$\pm(0.1\%rdg.+0.1\%f.s.)$		
		$0.5Hz \leq f < 45Hz$	$\pm(0.1\%rdg.+0.2\%f.s.)$		
		$45Hz \leq f \leq 66Hz$	$\pm(0.1\%rdg.+0.1\%f.s.)$		
	Current Measurement Accuracy	$66Hz < f \leq 1kHz$	$\pm(0.1\%rdg.+0.2\%f.s.)$		
		$1kHz < f \leq 10kHz$	$\pm(\{0.1+0.05 \times (f-1)\}\%rdg.+0.2\%f.s.)$		
		$10kHz < f \leq 100kHz$	$\pm(\{0.5+0.04 \times (f-10)\}\%rdg.+0.3\%f.s.)$		
Power Measurement Accuracy	DC	$\pm(0.1\%rdg.+0.1\%f.s.)$			
	$0.5Hz \leq f < 45Hz$	$\pm(0.3\%rdg.+0.2\%f.s.)$			
	$45Hz \leq f \leq 66Hz$	$\pm(0.1\%rdg.+0.1\%f.s.)$			

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		66Hz<f≤1kHz 1kHz<f≤10kHz 10kHz<f≤50kHz 50kHz<f≤100kHz	±(0.2%rdg.+0.2%f.s.) ±({0.2+0.1×(f-1)})%rdg.+0.2%f.s.) ±({0.2+0.1×(f-1)})%rdg.+0.3%f.s.) ±({5.1+0.18×(f-50)})%rdg.+0.3%f.s.)			
Measurement Functions	Harmonic analysis	Yes	Yes	Yes	Yes	Yes
	Waveform display	No	Yes	Yes	Yes	Yes
	Customized range jumping	Yes	Yes	Yes	Yes	Yes
	Line frequency filtering	OFF, 500Hz, 5.5kHz				
Measurement Parameters	Main Measurement Parameters	RMS voltage Urms, DC voltage Udc, AC voltage Uac, RMS current Irms, DC current Idc, AC current Iac, active power P, reactive power Q, apparent power S, power factor PF, phase angle φ, voltage frequency fU, current frequency fI, positive and negative peak voltages U+pk/U-pk, positive and negative peak currents I+pk/I-pk, peak voltage factor CfU, peak current factor CfI, electrical energy WP, current integral q, integration time, average active power AVP, average current AVI				
	Simultaneous measurement of RMS/DC/AC	C is	Yes	Yes	Yes	Yes
Display	Display screen	4-line LED digital tube; high brightness display	5.6-inch color LCD screen			
	Display Format	Numeric	Numerical, waveform, trend, bar graph			
	Data update cycle	100m/200m/500m/1/2/5[S]				
Other indicators	Interface	RS232 (standard), RS485/USB/GP-IB/LAN (optional)				
	Removable Memory	USB				
	Operating Environment	0°C~40°C,20%RH~70%RH				
	Power Supply	AC220V,50/60Hz				
	Weight	3kg	3kg	5kg	6kg	11.8kg
	External Dimension (W×H×D)mm	213×88×420 without feet Height of feet 15mm	340×133×505 excluding under-chassis with under-chassis height of 15mm			432×133×505 Lower quality machine with under-chassis height of 15mm
	Accompanying documents and Accessories	1 instruction manual, 1 power cord (1.5 meters), 1 communication cable (1.5 meters)				

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