

K511 Single Phase Protection Relay Test Set



Features

- ◆ The control platform of device adopt the latest high speed DSP processor and a very large-scale field programmable logic device FPGA with features of running speed, system stability and operation convenience.
- ◆ 0--300V/0.33A auxiliary DC power supply, which can provide working power to protection device or other device independently, ripple factor is less than 0.1%, accuracy 0.5%.
- ◆ It display clearly via 3.8 inch, 320X240 resolutions LCD.
- ◆ It have standard meter measurement(AC&DC voltage, current, phase, active(p), power factor($\cos\phi$), frequency etc.), External current input provides clamp meter access and direct access.
- ◆ It can test each type of single relay via manual or automatic mode.
- ◆ The inner part is style of architecture frame structure, it use high strength aluminum alloy case with shake-proof and shock resistance in order to bear severe vibration tests.
- ◆ Store 1024 group different auto-test and manual-test results.
- ◆ Operation convenience for rotary encoder work in with shortcut key.
- ◆ All-in-one design with multi-function, small volume, light weight, easy to use and carry.

Main specifications :

Voltage generators		
Setting Range	1-phase AC (L-N)	1 x 0 ... 300 V
Power	1-phase AC (L-N)	195VA MAX. at 0...300V
Accuracy	0.4% reading + 0.1% range typical at 0-300V	
Resolution	1mV	
Current generators		
Setting Range	1-phase AC (L-N)	0-40A;0-200A
Power	1-phase AC (L-N)	1120 VA MAX.,at 0...40A ; 1200VA MAX., at 0-100A (12V);900VA MAX., at 0...200A(4.5V)
Accuracy	0.4% reading + 0.1% range typical at 0-200A	
Resolution	1mA	
Generators, general		
Frequency	Range	5 ... 1000 Hz
	Accuracy / drift	Error < 0.001Hz at 0 ... 50Hz, error < 0.0002Hz at 50Hz
	Resolution	0.01Hz
Phase	Range	- 360° ... +360°
	Accuracy / drift	Error < 0.2°
	Resolution	0.1°
Time	Range	0.001 ... 9999.999s
	Accuracy / drift	Error<0.1ms
	Resolution	1ms
DC generators		
Voltage ranges	0 ... 300V/195VA	
Current ranges	0 ... 30A/840VA	
Accuracy		
Resolution	1mA; 1 mV	
Ampere meter		
Measurement method	TRMS (AC)	
Range	0 – 5A (AC)	
Accuracy	0.4% reading + 0.1% range	
Voltage meter		
Measurement method	TRMS(AC), Average value(DC)	
Range	0-300 V	
Accuracy	0.4%rd+0.1%rg	
Power factor meter		
Power factor (cos φ) Range	(-1.00)–1.00	
Resolution	0.01	

Accuracy	±0.04
Phase meter	
Phase φ (°)	0- 359
Resolution	1
Accuracy	±1
Aux DC Supply	
Range	0...300V/0.33A
Binary Inputs	
Number	2 pairs
Compatible Voltage	30V ... 250VDC, or dry contact
Binary outputs	
Number	1 Pair
Capacity	250V/3A(AC,DC)
Power supply	
Nominal input voltage	110/220V AC ±10%
Power	1000VA
Nominal frequency	50/60±5Hz
Environmental conditions	
Operation temperature	0°C ...60 °C
Storage temperature	-20°C ... 70 °C
Humidity range	5 ... 95 %, non-condensing
Weight	24KG
Dimensions	365 (W) ×465 (D) ×160 (H) mm
PC Interface	RJ45

Major functions:

Items	IEEE(R) No.
Overcurrent relays	50/76
Inverse time overcurrent relays	51
Undercurrent relays	37
Directional overcurrent relays	67
Overvoltage relays	59
Undervoltage relays	27
Directional voltage relays	91
Time-delay relays	