

## Relay Circuit Tester

Given the different functional requirements of grid protection systems, testing capabilities require a higher level of sophisticated testing hardware and software to analyze the operation of the entire protection system (or individual protection components) under "real life" situations. Similar improvements in simplifying the user interface and

software control of test instruments are further necessary to meet these expanding test capabilities. Rest assured, no matter how complex, every aspect of relay testing can be easily handled with Weshine®'s comprehensive line of Relay Circuit Tester (VS-JB900 series). Plus, whether you're testing traditional electromechanical relays or modern IEC 61850 networked devices, our rugged products deliver the high power you need while still being portable for practical testing.



## Weshine® Weshine Relay Circuit Tester

Weshine developed the first software-driven protective Weshine® **Relay Circuit Tester** in 2013, and we continue to offer models ranging from computer control (with a comprehensive and simple built-in touch screen user interface) to portable and laboratory-style hand-operated test fixtures to meet every requirement. A **Relay Circuit Tester** requirement. Relay testing solutions can be an expensive proposition when software is charged separately, but with Weshine solutions, the software required to test most relays is included in the test set so you won't incur additional costs.

Our rich heritage in manufacturing relays and primary injection test solutions benefits from the company's extensive relay testing experience. This experience also

Weshine Electric Manufacturing Co., Ltd.

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drives the success of our global support system - we're here to help you wherever you are!

1. Meets all the requirement of field tests. **Relay Circuit Tester** with standard 6 phase voltage, 6 phase current output, voltage 125V/phase, current 30A/phase, 6 phases in parallel can up to 180A. Digital Signal Processor Microcomputer. Not only test the traditional relays and protectors, but also test the modern micro computer relays, special for transformer differential protection and transfer equipment.
2. All technical indicators fully meet the standard DL/T624-1997: Technical condition of the relay computer test device.
3. Classic Windows XP operating interface, friendly man-machine interface, easy and fast to operate; High-performance embedded industrial control computer and 8.4 inch resolution of 800 × 600 TFT true color display which provides rich visual information, includes the current working condition and all kinds of help information.
4. The Windows XP system comes with the restore function; avoid system crashes caused due to illegal shutdown, or malfunction, etc.
5. Equipped with ultra-thin industrial keyboard and optical mouse, complete a variety of operations using keyboard or mouse the same as ordinary PC.
6. The main control board is DSP + FPGA architecture, 16 bit DAC output, generates high - density sine wave 2000 points each circle to fundamental wave, which greatly improves the wave quality and the accuracy of the test instrument.
7. Using high-fidelity linear amplifier. Both to ensure the accuracy of a low current, but also guarantee the stability of the high current.
8. USB directly connect with PC, without any adapter cable, easy to use.
9. Can be connected to a laptop computer (optional). Laptop computers and industrial machines use the same software, no need to re-learn the methods of operation.
10. With a separate DC auxiliary voltage source, output voltage 110V(1A), 220V(0.6A), provides relays or protective devices which require DC power.
11. The software with self calibrating function, which avoid to calibrate accuracy by adjusting relays after open the case, greatly improve the stability of the accuracy.

PRODUCT INFORMATION			
Product Name	SIX-PHASE PROTECTION <b>Relay Circuit Tester</b>		
Channels of Voltage	6	Channels of Current	6
	AC CURRENT SOURCE		
	0 ~ 30 A/phase, accuracy 0.5%		
	DC CURRENT SOURCE		
	0 ~ ±20 A / phase, accuracy: 0.5%		
	AC VOLTAGE SOURCE		
	Phase voltage:0 ~ 125 V/phase; Line voltage: 0 ~ 250 V		

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	DC VOLTAGE SOURCE		
	Phase voltage: 0~±150 V; Line voltage: 0~±300 V		
Power	Maximum output power of each Phase: 300 VA		
	Maximum output power of 6 parallel current: 900 VA		
	Maximum permitted work time of 6 parallel current: 10 s		
Input Terminals	8 pairs	Output Terminals	4 pairs
Standards	DL/T624-1997...	Certificates	CE; EMC; LVD; ISO; IEC;
Dimensions	455mm*530mm*220mm	Model Number	VS-JB900C

## Weshine® Relay Circuit Tester Parameter (Specification)

### 1. AC current source

Current range: 6x (0~30A)/phase, accuracy 0.5%.

6 phase parallel current output: 180A

Phase current working value for allowed long time: 10A

Power: 300VA/phase

Maximum output power of 6 phases in parallel: 900VA

Maximum permitted work time of 6 phases in parallel: 10S

Frequency range: 0~1000Hz; accuracy: 0.001Hz

Harmonic time: 2~20; phase: 0--360°; accuracy: 0.1°

### 2. DC current source

Current range: 20A / phase, power: 300VA/phase, accuracy:0.5%

### 3. AC voltage source

Phase voltage output:6x( 0~125V)/phase, accuracy: 0.5%

Line voltage output: 0~250V

Phase voltage / Line voltage output power: 70VA / 100VA

Frequency range: 0~1000Hz accuracy: 0.001Hz

Harmonic time: 2~20; phase: 0--360°; accuracy: 0.1°

### 4. DC voltage source

Phase voltage output range: 0~±150V accuracy: 0.5%

Line voltage output range: 0~±300V

Phase voltage / Line voltage output power: 90VA / 180VA

### 5. Switch terminal

Switch input terminals: 8 pairs

Dead contact: 1-20mA, 24V active output inside the device.

Potential flip: 0--6V DC low level

15-250V DC high level

Switch output terminals: 4 pairs, dead contact, rupturing capacity: 110V/2A, 220V/1A

### 6. Time measurement range

Range: 1ms-9999s; accuracy: 1ms

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7. Dimension & weight

Dimension: 455 (mm)×530 (mm)×220 (mm)

Weight: 30Kg.

8. Power

AC220V±10% 50Hz 15A

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# Six-phase Protection Relay Test set

Current range:  $6 \times 30A$   
AC Voltage range: 0-250V



# FEATURES

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- The main control board adopts dsp+fpga structure
- USB interface directly communicates with PC without any adapter cable
- With software self calibration function



**PRODUCT  
INTRODUCTION**



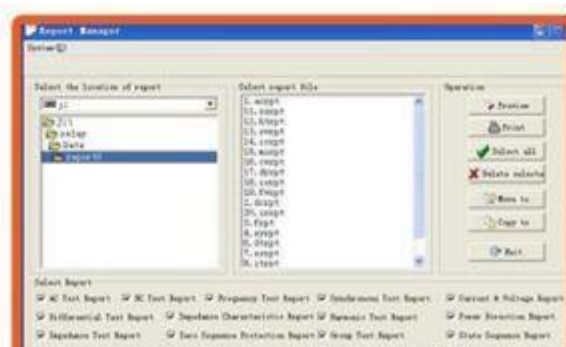
1. Switch Input
2. Voltage output:
3. Current output
4. Switch output
5. Amplifier switch
6. Fixed output
7. Grounding terminal
8. Reset button
9. Fuse
10. LCD
11. Host switch
12. PC interface
13. USB

# Interface display



Main interface

Report management





# Product size



# SUPPORTING ACCESSARIES





1	host	1 pc
2	Test line package	1 pc
3	Current test line	1 set
4	Power cord	1 pc
5	USB connection cable	1 pc
6	Program U-disk	1 pc
7	Ground wire	1 pc
8	Connector	1 set
9	15 A fuse	2 pcs
10	2 A fuse	2 pcs

# LIVE SHOW



## Selections

Weshine has 8 years experience specifically for deal with complete range of Electrical Equipment. At present, Weshine has invented various **Relay Circuit Tester** as shown as form:

ORDERING INFORMATION FOR <b>Relay Circuit Tester</b>				
Cat. No.	AC Current (A) and Accuracy	DC Current (A) and Accuracy	AC Voltage (V) and Accuracy	DC Voltage (V) and Accuracy
VS-JB-III	0 to 5,0 to 50, 0 to 100, 0.5%	0 to $\pm 20$ , 0.5%	0 to 250, 0.5%	0 to $\pm 250$ , 0.5%
VS-JB900B	0 to 40, 0.5%	0 to $\pm 30$ , 0.5%	0 to 125, 0.5%	0 to $\pm 150$ , 0.5%
VS-JB900C	0 to 30, 0.5%	0 to $\pm 20$ , 0.5%	0 to 125, 0.5%	0 to $\pm 150$ , 0.5%
VS-JB901	0 to 40, 0.2%	0 to $\pm 10$ , 0.2%	0 to 125, 0.5%	0 to $\pm 150$ , 0.2%
VS-JB902	0 to 30, 0.2%	0 to $\pm 10$ , 0.5%	0 to 125, 0.2%	0 to $\pm 150$ , 0.2%
VS-JB902S	0 to 30, 0.2%	0 to $\pm 10$ , 0.5%	0 to 125, 0.2%	0 to $\pm 150$ , 0.5%
VS-JB903	0 to 40, 0.2%	0 to $\pm 10$ , 0.5%	0 to 125, 0.5%	0 to $\pm 150$ , 0.2%
VS-JB904	0 to 30, 0.2%	0 to $\pm 10$ , 0.5%	0 to 125, 0.2%	0 to $\pm 150$ , 0.2%

Cat. No.	Number of Voltage	Number of Current	Operating System	Instrument Structure	Dimension (mm)	Weight (kg)
VS-JB-III	2	2		SCM	450 x 280 x 275	18
VS-JB900B	4	3	Win XP	IPC	455 x 530 x 220	30
VS-JB900C	6	6	Win XP	IPC	455 x 530 x 220	49
VS-JB901	4	3	Win XP	IPC	410 x 190 x 420	12.5
VS-JB902	4	3	Win XP	IPC	328 x 168 x 250	11
VS-JB902S	6	6	Win XP	IPC	390 x 280 x 170	15
VS-JB903	4	3	Win XP	IPC	410 x 190 x 420	18
VS-JB904	6	6	Win XP	IPC	410 x 190 x 420	18

Based on Supply Chain issues: Please contact your preferred Authorized Weshine Distributor for current pricing and lead times.

## Quality Certificates

We always believe that all the success of our company is directly related to the quality of the products we provide. **Relay Circuit Tester** meet the highest quality

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requirements specified in ISO9001, ISO14000:14001 guidelines and our strict quality control system.

## Shipment

For further information on Weshine's Service Solutions, contact our 24/7 online sales representative to get quotes from Weshine.

## Contact us

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