

HZ2321
Contact Resistance Tester

USER MANUAL

Dear user:

Thank you for choosing HZ2321 Contact Resistance Tester.

We hope that this instrument can make your work easier and more enjoyable, so that you can get the feeling of office automation in the test and analysis work.

Before using the instrument, please read this manual, and operate and maintain the instrument according to the manual to prolong its service life. "Just a light press, the test will be completed automatically" is the operating characteristics of this instrument.

If you are satisfied with this instrument, please tell your colleagues; if you are not satisfied with this instrument, please call (0312) 6775656 to tell you to serve you at all times-Baoding Huazheng Electric Manufacturing Co., Ltd., our company will definitely make you satisfied !

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According to the requirements of power equipment preventive test rules, the test of contact resistance of various switchgear is one of the conventional test items. The tester outputs DC constant current of 100A and 200A. The tester has the advantages of simple operation interface, high precision, strong anti-interference ability, good repeatability, small main body size, light weight and easy to carry. The tester has a thermal micro printer, which is convenient to print the current test results and is practical.

I.Main Technical Specification and Using Condition

1.Technical specification

Test Current	100A	200A
Test Range	0 mΩ~ 20mΩ	0 mΩ~ 10mΩ
Test Times	10S、 60S	
Accuracy	± (0.5%×R+1μΩ)	
Resolution ratio	0.1μΩ	
External dimension	340mm×255mm×240mm	
Weight	8kg	

2.Using condition

Environment temperature: -10℃~40℃

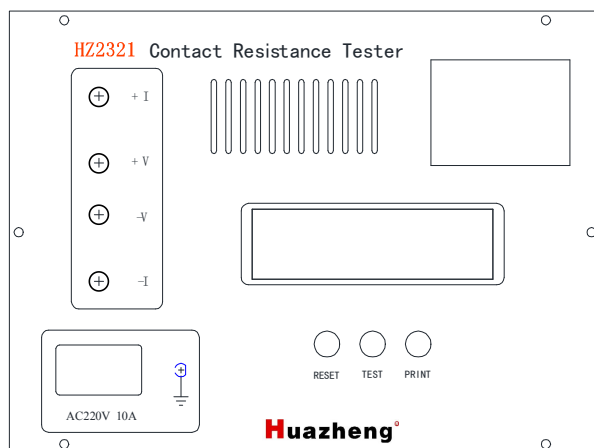
Environment humidity: ≤80%RH

Power supply: AC 198 V~242V

Power frequency: (50±1)Hz

II.Function Instruction of The Panel

Diagrammatic sketch of the panel:




RESET: Select current or reset tester.

TEST: Start testing

PRINT: Print the result data.

AC 220V: AC220V power (Fuse 10A)

 Ground terminal

+I **-I:** Current terminal

+V **-V:** Voltage terminal

III.Instructions

3.1 Connect the AC 220V power and connect Earth with ground terminal of tester. Connect the switch and instrument with the wire according to Figure 1. The test wire which clamp terminal connect to tested switch, and insert terminal connect to +I、-I 、+V、-V.

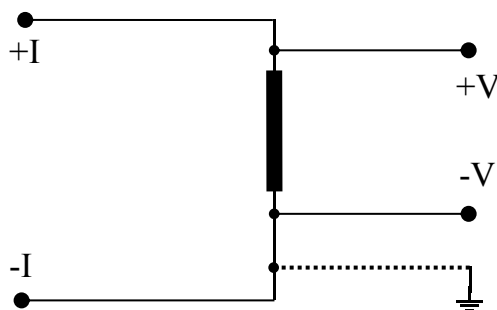


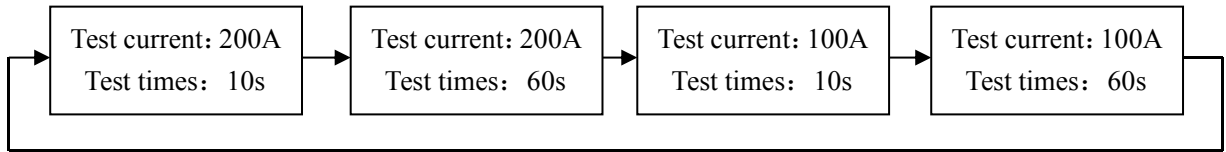
Figure 1

+I、-I are thick wires and +V、-V are thin wires.

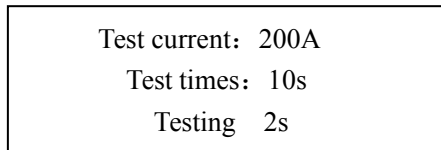
Warnings: one of the switch terminals must be connected with the earth properly before connecting the testing wire when the switch is in electric field environment

3.2 After the power on, the LCD displays Test current 200A and Test times 10s.

3.3 You can press“RESET”key to select the test mode:



3.4 You can press “TEST” key to start testing, and the LCD displays as shown in the following figure.



The resistance of the switch is then displayed on the LCD. When the test time reaches 10s or 60s, the test is completed. The instrument automatically turns off the DC constant current of 100A or 200A supply, and the LCD flashes to display the resistance value of the switch.

3.5 After the LCD flicker shows for a period of time, the tester re-enters the mode of operation selection state. At this point, press the print key to print the current data results.

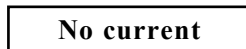
3.6 After the test, turned off the power and remove the power line and test wires.

IV.Common Breakdowns and Methods

1.The fuse blow after pressing ‘TEST’

Constant - current power supply is fault.

2.Instrument displays

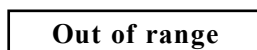


2.1 Current circuit impassable, check test line and clamp

2.2 The resistance of the test product is too large or the test wire is too fine to reach the selected test current.

2.3 Constant - current power supply is fault

3. Instrument displays



The resistance of the test product is out of range.

4. Instrument displays

Data instability

The wire on +V、-V is not good connected causing data instability.

V.Packing List

NO.	Item	Qty
1	Main machine	one
2	Power wire of AC220V	one
3	Testing wire	one
4	Earth wire	3 meters, 15 meters, one each
5	Experimental resistance	one (375uΩ)
6	Fuse	two (10A)
7	Paper of micro printer	two
8	Product specification	two
9	Product certification	one
10	Inspection report	one