

HZ-5200

Contact Resistance Tester



Huazheng Electric Manufacturing (Baoding) Co., Ltd

Dear user:

Thank you for choosing HZ-5200 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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I.Introduction

HZ-5200 Contact resistance instrument is a carefully developed high precision, digital switch detection instrument by the IEC standard And PRC's Latest electric power execution standard DL/T845.4-2004 Regulations. The Instrument adopt High frequency high power constant current switching power supply technology to detect the Micro ohm contact resistance. The Instrument is widely used for varieties of the switches and Contact resistance of switches and electrical appliances, contact resistance and Power cables, contact resistance of welding seam detection.

The measurement data is accurate and correct, high stability and satisfy the requirements of Power, power supply department on-site high-voltage switch repair and high voltage switch factory contact resistance test. Output current and measurement resistance output at the same time in the 7-inch high brightness touch color liquid crystal, measurement results can be stored on the U disk, power off storage can meet the data query at any time.

II.Specification

1. The instrument can be controlled by the whole process of the instrument through the special software of the mobile phone, and the test data can be stored in a fixed format on the mobile phone, so as to facilitate data query at any time.
2. It has a variety of protective functions, such as reverse potential impact, disconnection, power failure and overheat during the test, which can reliably protect the impact of reverse potential on the instrument and give synchronous sound alarm.
3. Intelligent power management technology, the instrument always works in the minimum power state, effectively saving energy and reducing heat.
4. Output high voltage, measurement range is wide.
5. The test current comes from the high precision current constant current power supply, without manual adjustment, the test is fast and accurate.
6. Four terminal connection methods are adopted to effectively eliminate the influence of the test line resistance on the test results.
7. seven inches high brightness touch color LCD, strong light display clear, full touch

- screen operation, English and Chinese free switch
8. The instrument has a perpetual calendar clock and power off storage, which can store 1000 sets of test data for reference at any time
9. The instrument has bluetooth communication, RS232 communication and USB interface, used for computer communication and U disk data storage.
10. With a face plate type micro printer.

III. Technical Index

Current measurement: 50A, 100A, 150A, 200A

Range : 0~100mΩ (50A) 0~50mΩ (100A)

0~20mΩ (150A) 0~20mΩ (200A)

Resolution : 0.1μΩ At Min.

Precision : ± (0.5%±2)

Power consumption : 1000W

Working method: Continuous measurement.

Power supply : Base on your request

RH less than 90%, no dew

Size:360*290*170 (mm)

Weight: Tester 6.4KG Wire box 9KG

IV. Instrument Operation Function



1. Power switch: Press T to supply power, press O to cut off power supply.

2. Power input terminal, adopt AC 220V power supply.
3. I+、I- : Current output terminal, supply the constant current to the tested object by special testing wire.
4. V+、V- : Input voltage terminal for tested object.
5. LCD: 320X240 true color LCD, under the bright, font can also be clearly observed, display operation settings, test results, contact resistance value and output current value.
6. RS232: Serial port.
7. $\perp$: Ground terminal.
8. USB: U disk storage connector.
9. Printer: Thermal printer, prints the testing results.

V.Operation Menu

- 1、The boot interface is shown in figure 1:

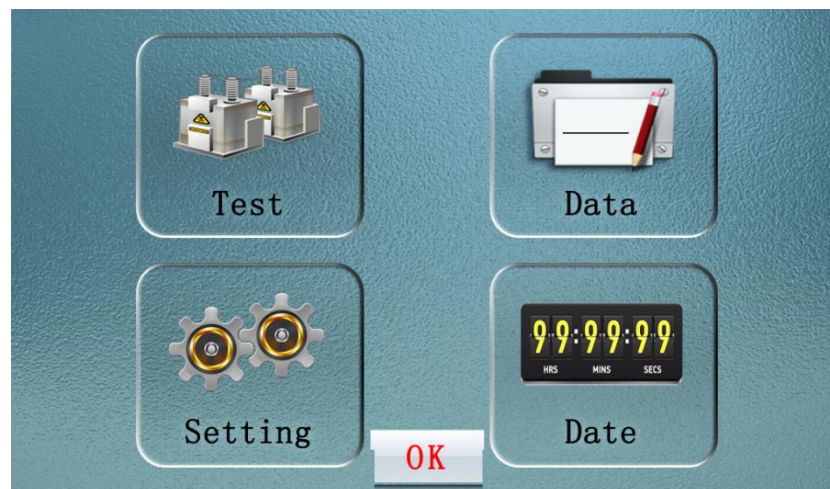


Figure 1

- 2、Press "Data test" to enter the following interface, as shown in figure 2

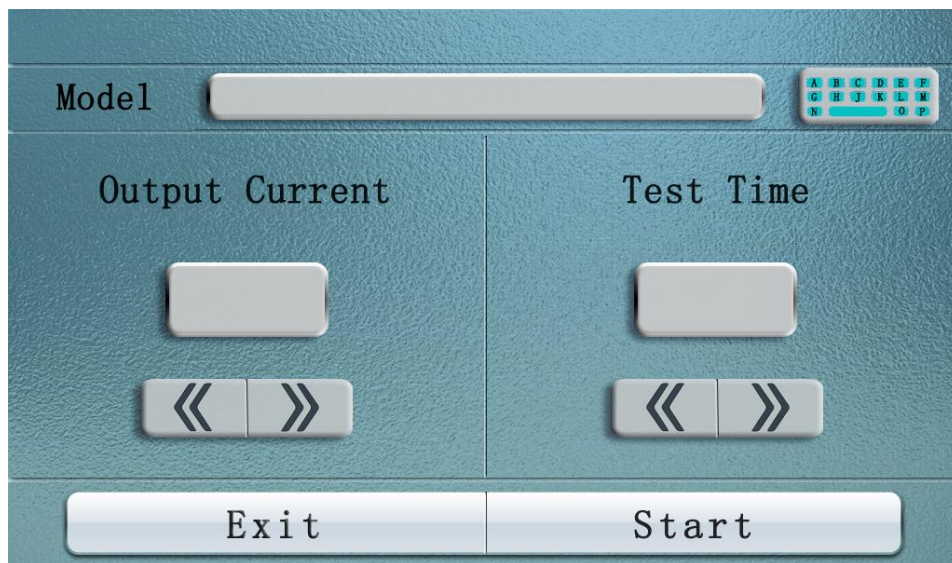


Figure 2

Model of test product: Click  to edit the name of test product;

Test current: Click  The current circulates between 50A and 100A;

Test time: Click  Test time: cycle between 10S、30S、45S、60S、300S、600S、999S

3、After the current is selected, click **"Start test"**, which shows that "please wait while charging" enters the test state. After a few seconds, the test result will be displayed, as shown in figure 3

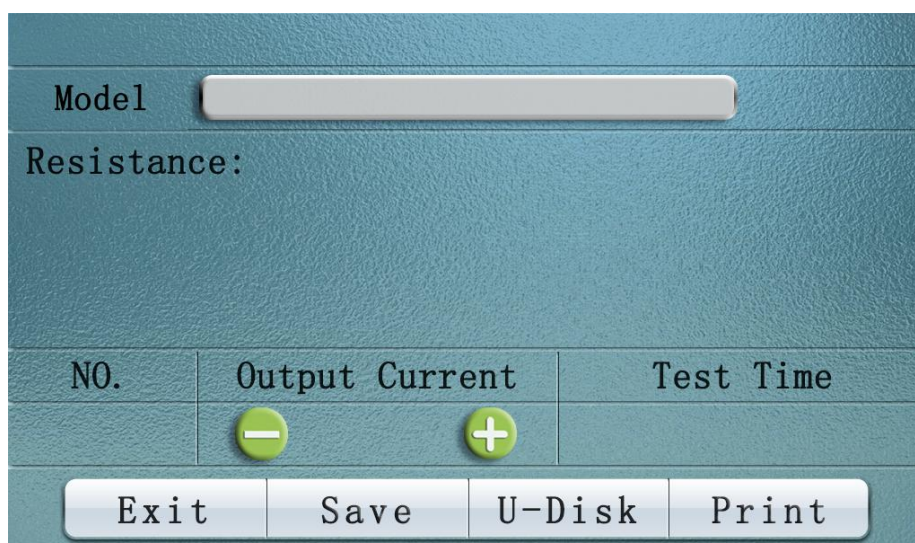


Figure 3

After displaying the test results, you can click   After displaying the test results, you can click to directly switch the current without returning to the main interface. After switching the current, you can wait patiently for the test results after a few seconds. Next, you can save the test results by "local storage", or click "U disk storage" and "print". Click "return to main page" and "return to main interface";

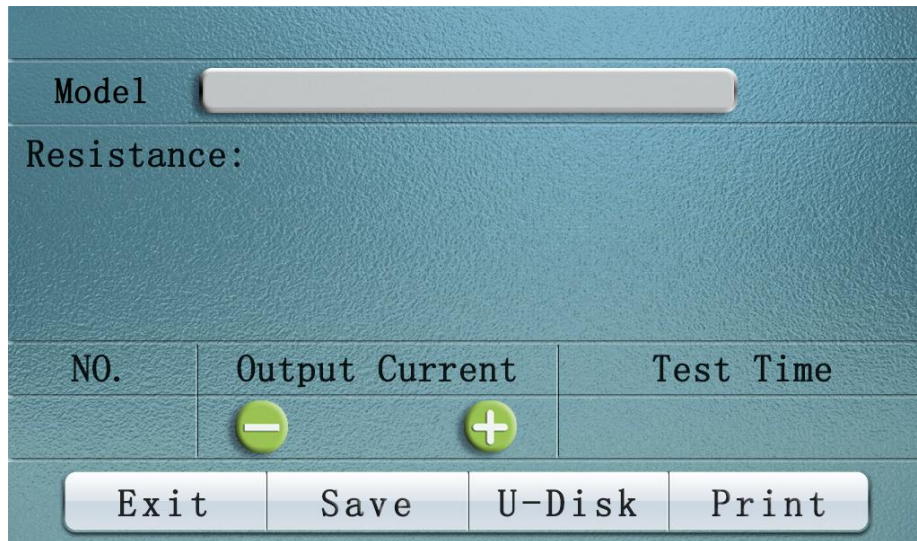


Figure 4

Click   to query the historical data and delete the data, or to store and print the data on the U disk. Click return to the home page and return to the main interface.;

5、Click "parameter setting" in figure 1 to enter the "parameter setting" interface, as shown in figure 5:



Figure 4

Brightness adjustment: according to the scene environment, the screen brightness can be adjusted by moving the button

Language setting: click the button to switch the Chinese/English interface

Manufacturer Settings: only manufacturer can set

Click the Settings to return to the home page and return to the main interface

6、Click "clock modification" in figure 1 to enter the clock modification interface, as shown in figure 6:

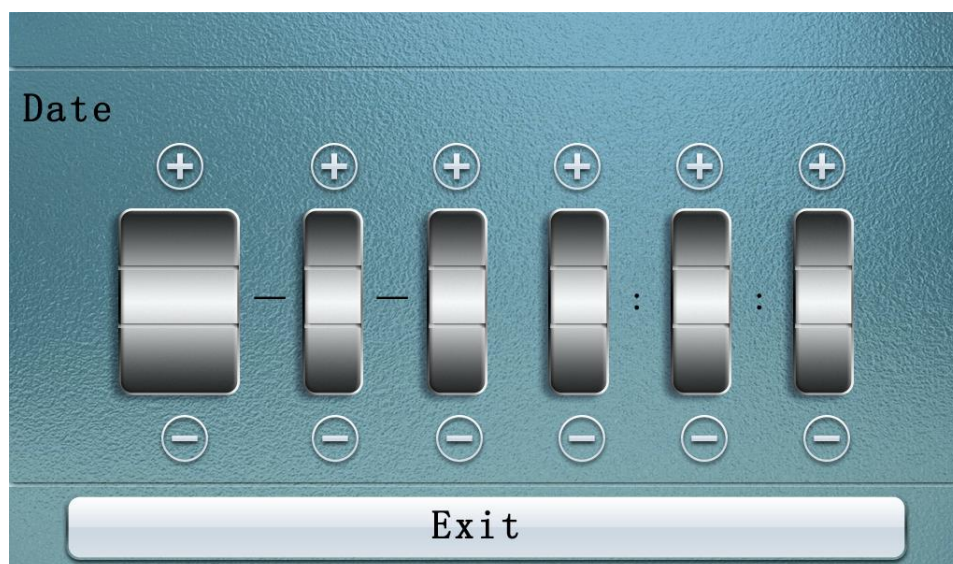
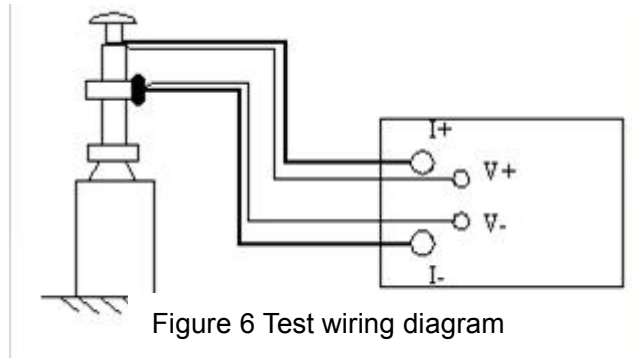


Figure 6

Click   to set date and time;

VI. Connection Method



Note: All the connection should be reliable connected with the tested object, if the contact surface oxidation, firstly should remove the contact surface oxide.

- 1, wiring methods: as shown in Figure 2, special test line the color red to red, black to black, the thicker current line connected with corresponding I +, I - terminal screws tightly, the thinner power line inserted into the socket V +, V -, two clamped tested on the product ends.
- 2, measure: complete the connection as Graph 2, turn on the power switch, choose the testing time for testing, the instrument will automatically charging, constant current and measuring resistance.

VII. Communication

Steps to connect the phone to the instrument:

1. The instrument is powered on and turned on
2. Turn on the Bluetooth function of the mobile phone and click "Search for Devices"
3. Select the corresponding device (device name format is "HLxxxxxxxxx") from the searched devices to connect. Enter the "1234" pairing code in the Bluetooth pairing request box, click OK, and wait for the device to match successfully.
4. Open the software and click the gray Bluetooth icon in the upper right corner of the homepage. Select the device that just matched successfully in the pop-up menu.
5. After the wait for connection prompt in the software disappears, the connection is successful.

VIII.Safety Precautions

1. Handlers should having common sense of electrical equipment or tester
2. Enter “reset” after finishing measurement, and turn off power. Attention: strictly forbid dismantle all wires live wire
3. Enter “ reset” to replacing when the tester breaking.
4. The tester must be served by professional person, prohibit make it by yourself.
5. The tester only for measurement contact resistance, prohibit measurement inductive contact resistance.

IX.Guarantee And After Sales Service

After service: 1 years of warranty and lifetime maintenance and supporting technology.

Please contact our company on time if the tester breakdown, so we'll arrange the fastest disposing way.

X. Packing List

No.	Item	Qty
1	Main engine	1
2	Red test line	1
3	Black test line	1
4	Power line	1
5	Ground lead	1
6	Fuse pipe	2
7	Print paper	1
8	Test sample (Standard resistance)	1
9	Serial port line	1