

HZ-SH100A Loop Resistance Tester



Dear user:

Thank you for choosing HZ-SH100A Loop 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 !

Contents

I.Introduction.....	1
II.Main Features And Technical Indicators.....	1
III.Panel Introduction.....	2
IV.Operating Instructions.....	3
V.Precautions.....	4
VI.After Sales Service.....	5
VII.Packing List.....	5

I.Introduction

The HZ-SH100A tester follows closely the international frontier technology. It is a fully automatic, digital handheld portable measuring instrument developed with a number of patent technologies. It has completely independent intellectual property rights.

The HZ-SH100A tester is not only applicable to the contact resistance of the main contact of high-low voltage switch, but also applicable to the measurement of wire, switch contact, relay contact and other test products.

According to the latest power standard DL/ T845.4-2004, it adopts the design of the combination of high-frequency switch power supply technology and digital circuit technology. The test current adopts the DC 100A recommended by the national standard. The test output time of 100A can be no less than 60s.

HZ-SH100A tester is equipped with bluetooth module. The test data can be uploaded to the computer or background system through bluetooth.

HZ-SH100A tester has a built-in rechargeable lithium battery. The lithium battery uses nano-quality A-cell and advanced power management technology. It can perform at least 400 switching measurements on a single charge.

II.Main Features And Technical Indicators

- Main features:

1. This instrument follows the international cutting-edge technology and adopts a number of patented technologies and has completely independent intellectual property rights.

2. The instrument can measure various contact resistances such as high and low voltage switches and contacts.

3. The instrument complies with the power standard DL/T845.4-2004, and the measurement speed is fast.

4. The instrument has a built-in lithium battery power supply for outdoor use.

5. This instrument has the function of bluetooth transmission, which satisfies the communication protocol of field standardized operation platform test data acquisition.

6. This instrument has the function of printing, can be equipped with external printer for printing.

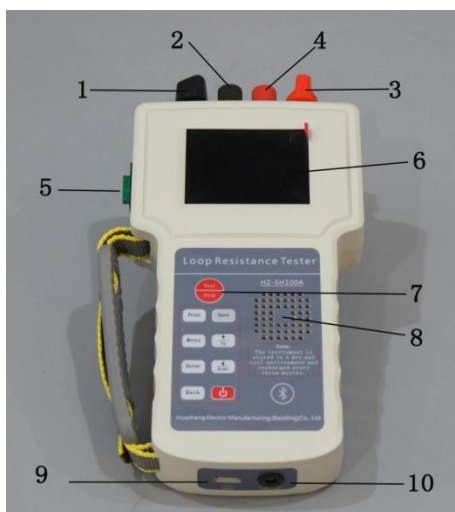
7. This instrument has the function of data storage, and can store 100 sets of data in the machine

● Technical indicators:

Type Item	HZ-SH100A
Output Current	More than 100A when tested in 2mΩ
Testing Time	Quick test、10s、20s、30s、40s、50s、60s
Test Range	0.1uΩ-2mΩ
Resolution	0.1 uΩ
Precision	± (0.5%+2 digit)
Dimension	240×150×40
Weight	1kg
Use environment	Temperature: 0℃-50℃ humidity<80%
Protective tube	Plug-in 40A
Test line	10m、16mm ² +1.6mm ²

III.Panel Introduction

Panel front View (see below)



No.	Function Description	No.	Function Description
1	Test cable I- input port, ground port	2	Test cable V- input port
3	Test cable I+ input port	4	Test cable V+ input port
5	Pluggable Protective tube	6	Highlight LCD screen
7	Measuring button area	8	speaker
9	External printer interface	10	Dedicated charging interface

IV. Operating Instructions

4.1 Power On, Power Off

Power on: short press the power button to enter the power on test state.

Power off: long press the power button for more than two seconds to turn off the power. When the instrument is on, it will turn off automatically without any operation within two minutes.

4.2 Measuring Operation

Connect the switch and instrument with the special test line, connect the switch with the end of the test line clamp, and connect instrument I+ (Red), V+ (Red), I- (Black) and V- (Black) on the other end. Note: when the switch is in a strong electric field, one end of the switch should be grounded reliably before connecting the test line.

In the test interface, the measurement time can be switched by pressing the "UP" and "DOWN" buttons. According to the "fast test, 10s, 20s, 30s, 40s, 50s and 60s", different measurement time can be selected according to the test product.

Click "test/stop" button to start the measurement. If the measurement time is not reached, click "test/stop" again to stop the test.

After the test is completed, the test results will be automatically played by voice. Press the storage key to save the test results. In the case of external printer, press the print button to print the test results.

4.3 Temperature Display

The instrument displays the internal temperature in real time. Please use it below 85 °C.

4.4 Low Voltage Protection

When the battery voltage of the instrument is too low, the interface prompts "please charge", and the measurement is prohibited to start to prevent the battery from being damaged.

4.5 Others

Press the menu key to set time, view data, transmit bluetooth and set voice. Can have "UP" and "DOWN" button switch function selection, press the "Enter" key to enter the corresponding functional area.

Time setting: switch year, month, day, hour, minute and second after entering the menu key, change the time value of "UP" and "DOWN" keys, and press the "Enter" button to save time for modification.

Data view: "UP" and "DOWN" keys switch data, the print key can print save data.

Bluetooth transmission: can be customized according to customer requirements.

Voice Settings: you can set the voice broadcast switch.

V.Precautions

- 1、 Please read this manual carefully before using this instrument.
- 2、 Instrument users should have some knowledge of electrical equipment or instrument use.
- 3、 This instrument can be used both indoors and outdoors, but should avoid rain, violent shaking.
- 4、 The built-in rechargeable lithium battery should be regularly charged and maintained, and should be charged at least once every 3 months for long-term storage.

It is strictly prohibited to use the charger that is not matched by the company for charging, otherwise the battery may explode.

VI.After Sales Service

- In case of product quality problem, the company's engineers and technicians will respond within 24 hours.
- Two years warranty from the date of purchase, lifetime maintenance.

VII.Packing List

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