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Wuhan Jiuhua Jingce Power Equipment Co., Ltd.

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**JH1003**  
**Handheld Loop resistance**  
**tester**  
**User Manual**

RPM

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## **1. Product Overview**

Handheld Loop contact resistance tester, used for measuring the contact resistance of switch contacts and other micro ohm resistances. The instrument is powered by a lithium battery, with a test current of 100A, and can accurately measure under strong interference. JH1003 is a handheld instrument with a small size and light weight, making it particularly suitable for on-site applications.

## **2. Technical Parameters**

Measurement range: 0-20m  $\Omega$

Resolution: 0.1  $\mu\Omega$

Measurement accuracy:  $\pm$  (reading  $\times$  0.5%+1)  $\mu\Omega$

Test power supply: constant current and voltage limiting, approximately 2.0V

Test current: DC 30/50/80/100A optional (or 50/100A)

Test current accuracy:  $\pm$  5%

Measurement time: fast, optional from 10 to 60 seconds

Measurement frequency: >500 times (fully charged, fast measurement mode)

Special testing line: Resistance < 10m  $\Omega$



Charging power supply: Input 100V~240VAC, 50Hz/60Hz, output 12.6V/3A

Data storage: Store 100 sets of measurement data

Working environment: temperature -10~50 °C, humidity ≤ 90%

Host weight: approximately 2.2kg (excluding cables)

Host volume: 280mm x 180mm x 78mm

### 3. Measurement Instructions

#### (1). Host

Figure 1 shows the host, with a 7-inch TFT LCD screen and a button operation area on the right side of the host.

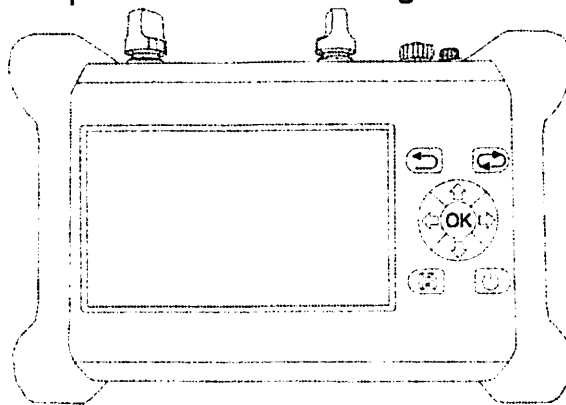




Figure 1: Host



## **(2). Power On**


Long press  【power on/off】 for 3 seconds, upon hearing the sound of the buzzer, the instrument enters the power on state.

## **(3). Power Off**

When the instrument is turned on, Long press  【power on/off】 for 3 seconds, hearing the sound of the buzzer, the instrument shuts down.

## **(4). Test Interface**


Turn on the instrument and enter the testing

interface, press  key, when the cursor moves, you can select the test current, test time, and test number. When the cursor enters the test current, press the up and down keys to select the current. Move the cursor back to the [Start/Stop] button, press the [OK] button to start testing, and press the [OK] button to stop testing during the testing process.




Testing		2023-05-21 15:44:45
<h1>400.1 <math>\mu\Omega</math></h1> <p><math>U_x = 0.0408 \text{ V}</math>   <math>I_x = 100.8 \text{ A}</math>   <math>T = 1\text{s}</math></p>		
Test-Current	100A (0-1m $\Omega$ ) ▼	<div>Testing</div> <div>Start/Stop</div>
Test-Time	FAST ▼	
Test-Number	6421	
Ver:1.0.0620		

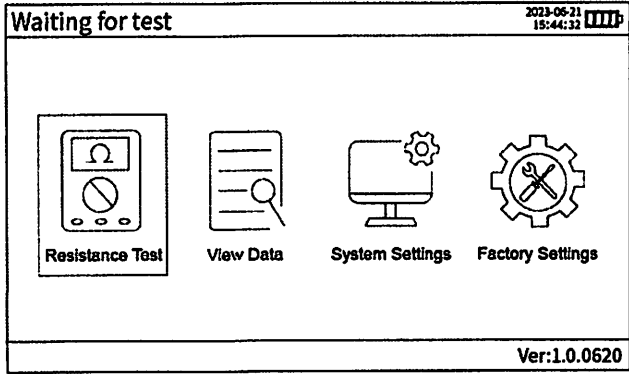
Figure 2: Test Interface

When finished the test, press  【Save key】, the instrument will store the current measured data.

## (5). Main Interface

The instrument is in the testing interface, press  return to the main interface, press the 【 left 】 and 【 right 】 keys to select the menu, and press the 【 OK 】 key to enter the function interface.





ers the data view

ers the data view

Date	TestNO.	C
16-11-14-01	6421	
16-11-21-36	6421	

Waiting for test

2023-06-21

15:44:56

View Data

NO.	Data	TestNO.	Current	ResValue
1	2023-06-16 11:14:01	6421	0.000A	>100.0mΩ
2	2023-06-16 11:21:36	6421	0.000A	>100.0mΩ
3	2023-06-16 11:45:39	6421	100.9A	400.0mΩ
4	2023-06-16 11:45:56	6421	80.9A	399.8mΩ
5	2023-06-16 11:46:11	6421	50.8A	400.1mΩ
6	2023-06-16 11:46:26	6421	30.7A	400.3mΩ
7	2023-06-16 16:18:02	6421	30.8A	400.4mΩ
8	2023-06-16 16:18:16	6421	30.8A	400.5mΩ
9	2023-06-16 16:21:58	6421	30.8A	400.5mΩ

Cancel

Ver:1.0.0620



press the [OK] button to enter the data processing interface as shown in the following figure:

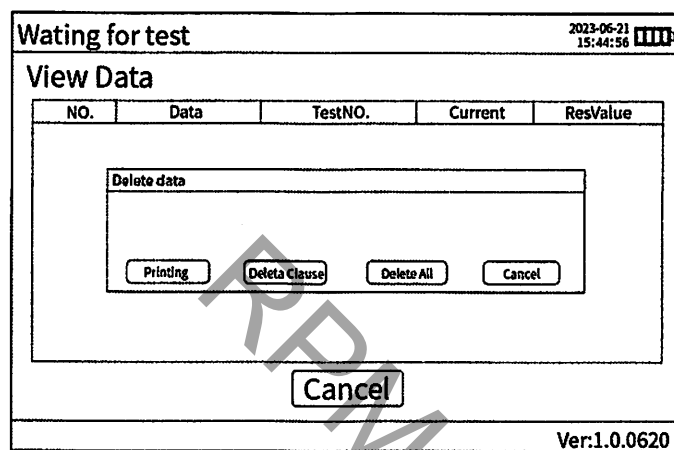


Figure 5: Data Processing

This interface allows for printing and deleting data.

## (7) . System Settings

Enter the system settings interface as shown in the following figure:



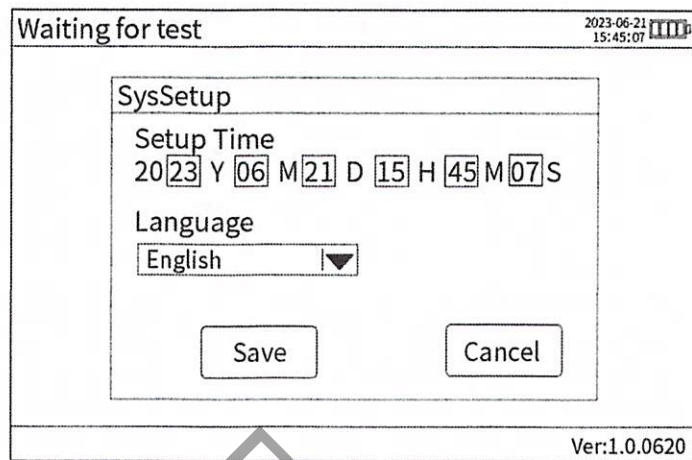



Figure 6: System Settings

Press the [Loop Key] , the Instrument cursor move, press the 【 Up 】 and 【 Down 】 keys to adjust the time, move the cursor to the language setting, press the 【 Up 】 and 【 Down 】 keys to select the language setting, and after setting is completed, move the cursor to 【 Save 】. Press the 【 OK 】 key to save and exit. If the language is modified, the instrument will automatically shut down and restart is effective.



### **(8). Data Export**

Turn off the instrument, insert one end of the data cable into the USB port and the other end into the computer USB port. The instrument will automatically turn on and wait for the instrument to enter the testing interface. The computer will pop up an external storage disk for recognition. Clicking on the storage disk can copy or open the txt text file.

## **4.Product Attachments**

Product Name	Qty
Host	1pcs
Test line	2pcs
Data cable	1pcs
Outer box	1pcs
Certificate of conformity	1pcs
Instructions for use	1pcs
Factory inspection report	1pcs



## **5. Notes**

The warranty period of the instrument is 2 years. Due to the use of lithium batteries for power supply, in order to prevent long-term power loss of the instrument, if the instrument is stored for a long time, please make sure to fully charge it or keep at least 3 grids of electricity.

Generally, the instrument is stored for 10 months and needs to be maintained once.

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