

LNSH100A Handheld Loop Resistance Tester User Manual

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1. Brief Introduction

LNSH100A handheld circuit resistance tester is used for measuring the contact resistance of switch contacts and other micro ohm resistances. The instrument is powered by a lithium battery, and the test current reaches 100A, which can accurately measure under strong interference. LNSH100A is a handheld instrument with small size and light weight, making it particularly suitable for on-site applications.

2. Technical Parameter

Measurement range: 0-20m Ω

Resolution: 0.1 $\mu\Omega$

Measurement accuracy: \pm (reading \times 1%+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 Ω

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%

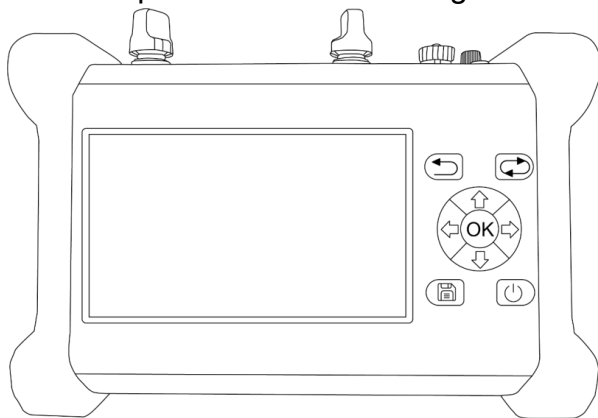
Host weight: approximately 2.2kg (excluding cables)

Host volume: 280mm high × 180mm wide × 78mm thick

3. Measurement Instructions


(1)、Host

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




Picture 1- Host

(2)、Power On

Long press  **【On/Off】** for 3 seconds, hearing the buzzer sound, the instrument enters the power on state.

(3)、Power Off

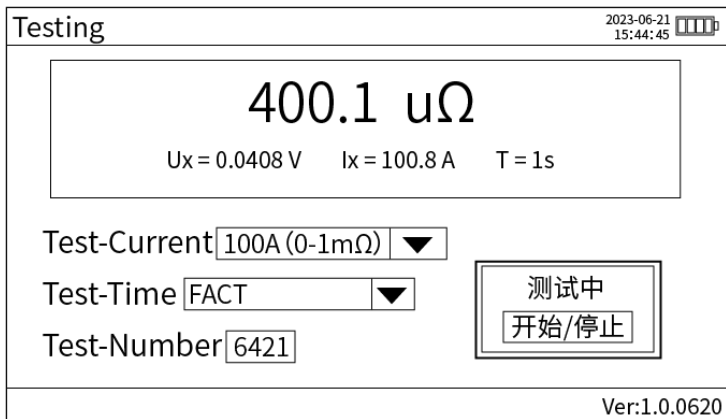
When the instrument is turned on, Long press  **【On/Off】** for 3 seconds, hearing the buzzer sound, the instrument shuts down.

(4)、Test Interface


Turn on the instrument to enter the testing interface, press




key. Move the cursor to 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 the test, and during the test process, press the **【OK】** button to stop the test.

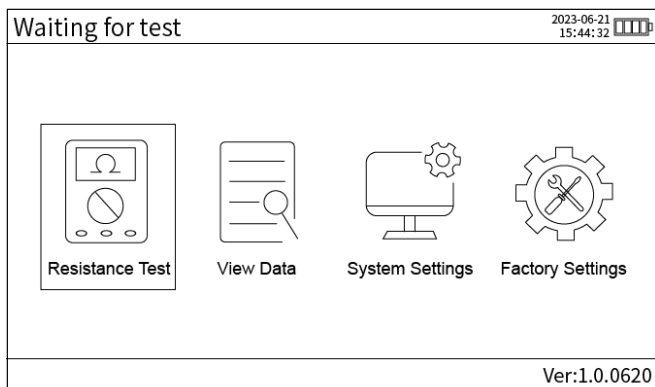


Picture 2 - Test Interface

After the test is completed, press the  **【Save】**, the instrument will store the current measured data.

(5)、Main Interface

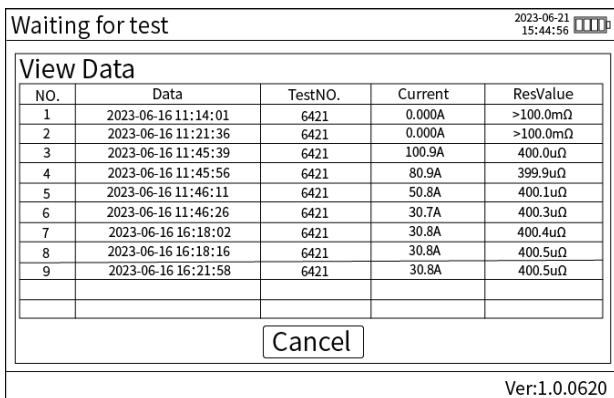
In the testing interface of the instrument, press  return to the main interface, Press the **【Left】** and **【Right】** keys to select the menu, and press the **【OK】** key to enter the function interface.



Picture 3- Main Interface

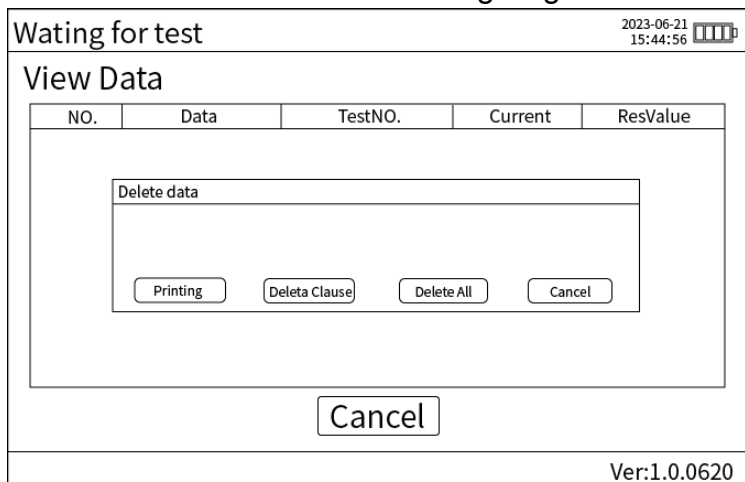
(6)、View Data

The instrument enters the data viewing interface, as shown in the picture:



Picture 4- View Data Interface

Press the **[Up]** and **[Down]** buttons to select data, and then press the **[OK]** button to enter the data processing interface as shown in the following figure:

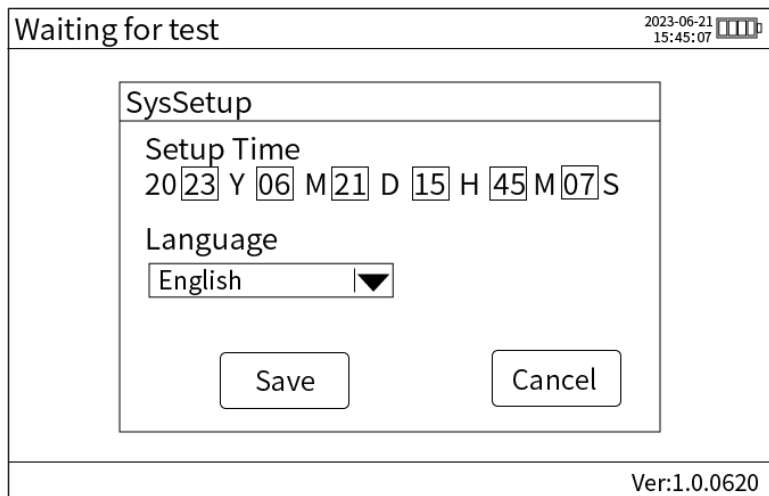


Picture 5-Data Processing


This interface allows for printing and deleting data.

(7)、 System Settings

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



Picture 6 - System Settings

Press the **[Cycle]**  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 setting language, and after setting, move the cursor to **[Save]** and press the **[OK]** key to save and exit. If the language is modified, the instrument will automatically shut down and restart effectively.

(8)、 Data Export

Turn off the instrument, plug one end of the data cable into the USB port, and the other end into the computer USB jack. 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 a txt text file.

4. Product Accessories

Description	Quantity(pcs)
Host	1
Test Cable	2
Data Cable	1
Printer (non standard customer selection)	1
Outer Box	1
certificate of Inspection/Quality	1
Instructions	1
Factory Inspection Report	1

5. Note

The warranty 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, it is necessary to fully charge the instrument or keep at least 3 cells of electricity for long-term storage. Generally, the instrument is stored for 10 months and needs to be maintained once.