

MEWOI

Battery Internal Resistance Tester

RC3563



User Manual
www.mewoi.com

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Warning



Thanks for your purchase of **Battery Internal Resistance Tester RC3563** of our company. In order to make better use of this product, please make sure to:

—Read this manual in detail and the operator must totally understand this manual and be in proficient in operation of this meter before making test.

I. Brief Introduction

MEWOI-RC3563 internal resistance tester can measure the internal resistance and voltage of the battery at the same time. It adopts kelvin four-wire test clip, which can avoid the influence of contact resistance and wire resistance, and can make more accurate measurement.

This product adopts intelligent control, liquid crystal display screen, at the same time implanted kalman filter mathematical algorithm, with high precision, high efficiency, low cost, light weight, energy saving and environmental protection and other advantages. Built-in 1000mAh lithium battery, 5V charging, android phone charger can be used, very convenient.

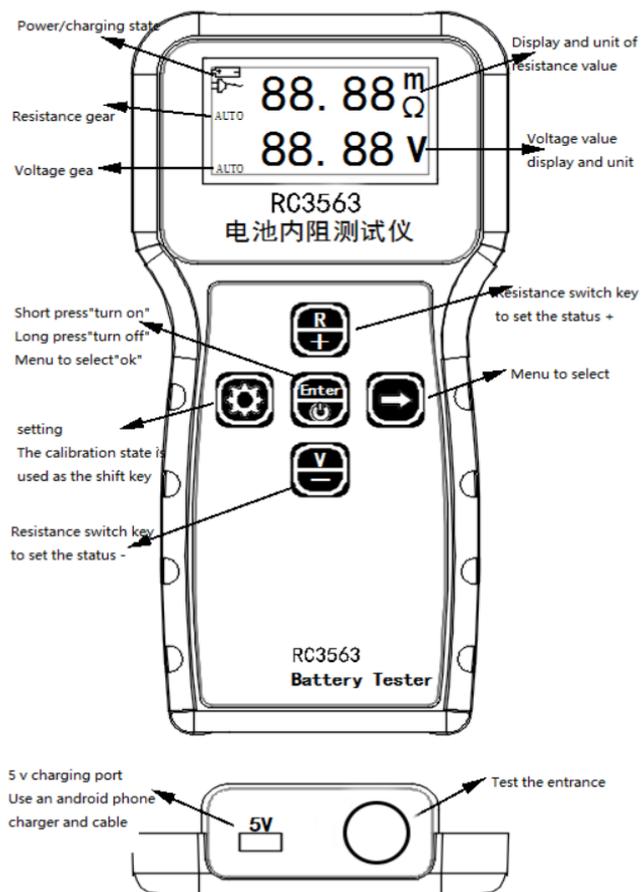
II. Technical Specification

2.1 rated working conditions:	
Working environment:	-10℃ ~ +40℃ relative humidity <80%
Storage environment:	-20℃ ~ +80℃ relative humidity <80%
2.2 Technical indicators:	
Basic accuracy of resistance:	0.5%
Resistance measurement range:	1 $\mu\Omega$ ~ 200 Ω
Voltage basic accuracy:	0.5%
Voltage measurement range:	0.1mv ~ \pm 100VDC
Resistance range: updates:	5 range automatic and manual

Voltage range:	3 range automatic and manual
Display updates:	5 times per second
Resistance calibration:	each range is manually calibrated without affecting each other
Voltage calibration:	each range is manually calibrated without affecting each other
Factory Settings:	save factory information, one key can restore factory state
Calibration XY calibration:	belong to the scope of resistance calibration, re-calibration, enter into the resistance calibration, press "SET" button to enter CALXY, must clamp about 20m Ω to calibrate the resistance, long press R button, when show X, y, Multiple calibration at the same number would be better.
Energy saving setting:	10-minute delay, automatic shutdown without any operation
Charging power:	Built-in lithium battery, charging with 5V/1A, suitable for android phone charger.

Size:	length, width, height =166*80*28
Language	Chinese, English
Note:	During the test, try to make the pen or clip parallel, which can be reduced Eddy current effect.

III. THE SPECIFIC USE INSTRUCTIONS



1. Short press "Enter"  button to turn on.

2. Long press "Enter"  to turn off.

3. Press setting  button, enter setting state, Then press the select  button, can choose different functions, Finally press the “Enter”  to enter the corresponding function
4. Enter resistance calibration/voltage calibration state, at which point the test line clamps the calibration resistance or voltage, then press setting  button to select the gear position to be calibrated, press   “+”“-” The adjustment display value is equal to the calibration resistance  chose “OK” or “Cancel”, press  button to save or cancel.

IV. FAQ

➤ **Q:What capacity of battery can be measured?**

➤ A: you can measure any capacity, no matter how much, as long as the internal resistance is within 0-200 ohms and the voltage is within 100V.

Q: Is it possible to measure the internal resistance online, and to test the UPS power supply?

A: it can be tested online without affecting battery work, so the battery can be continuously tested during UPS maintenance.

Q: Clip short connection, is it not zero(0)?

A: Clip short connection is not zero and $x.xxxm\Omega$, it is normal, The minimum will occur only if the two clips are in perfect contact (It could be 0 or very close to 0) ,It doesn't matter if it's not zero, In the process of measurement, the internal program has calculated the theoretical zero point without affecting the accuracy and does not need to calibrate 0.

Q: Does the battery need to be fully charged?

A: The full and under charge battery does not affect the internal resistance of the battery, which can be measured and the change of internal resistance is very small (except defective batteries).

Your **T**esting **S**pecialist 

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