

HZND-600

Battery Internal Resistance And Conductivity Tester



Dear user:

Thank you for choosing HZND-600 Battery Internal Resistance
And Conductivity 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.Overview

As a key component of the power supply system, the battery must be tested and maintained every year, every quarter or even every month, and its test data needs to be analyzed on a regular basis.

At present, the maintenance of valve-regulated lead-acid batteries in China is generally to check the float voltage of the battery. Practice has proved that there is no correlation between the voltage and the capacity, because the voltage only reflects the surface parameters of the battery.

Internationally, the conductivity or internal resistance test has been widely used in the daily maintenance of batteries to replace the voltage inspection method in the past.

Because the conductance or internal resistance is a parameter that reflects the internal battery, the conductance or internal resistance of the battery has been recognized as an important parameter for accurately and quickly judging the health of the battery.

The battery conductance or internal resistance tester is a digital storage type multifunctional portable tester for quickly and accurately measuring battery operating parameters. The meter can display and record important battery parameters such as battery voltage, conductance or internal resistance, connecting strip resistance, etc., through online testing, and accurately and effectively judge the battery's good condition. It can form an intelligent test with a computer and special battery data analysis software. Equipment, further track the decay trend of the battery, and give an alarm in advance to facilitate the discretionary processing of engineering and management personnel.

II.Main functions and features

The main function

1. Quickly measure the battery's voltage, conductance or internal resistance, connection resistance and other parameters online.
2. Alarm for battery conductance or internal resistance and voltage exceeding limit.
3. The meter adopts anti-AC ripple noise circuit technology to make the meter test results more accurate and the test results more consistent.
4. The meter has a quick re-test function. If human error is found during the test, it can be re-tested and automatically overwrite the original data.
5. The meter prestores more than 200 reference conductance or internal resistance values, which can also be customized.

- 6. The battery parameters are all numbered in groups, which is convenient for data management.
- 7. Supporting powerful computer battery status intelligent analysis software to realize the tracking and analysis of battery "medical records".
- 8. The automatic test mode is convenient for users to measure.
 - (1) Automatically analyze and judge the "deteriorated" state of the battery.
 - (2) Form a historical record database to describe the battery status curve.
 - (3) Comparative analysis of the same group of batteries.
 - (4) All battery classification management (good, medium and poor)

III. Technical Data

Measuring range	Conductivity: 20~19,990S Internal resistance: 0.000mΩ-99.999mΩ Voltage: 0.000v--25v
Minimum measurement resolution	Conductivity 1S Internal resistance: 0.001mΩ Voltage: 1mV
measurement accuracy	Conductivity: ±0.5%rdg ±6dgt Internal resistance: ±0.5%rdg ±6dgt Voltage: ±0.2%rdg ±6dgt
Power supply	11.1V, 2400mAh, rechargeable lithium battery
Power consumption	Can work continuously for 8 hours
storage	64Mbit Flash+4G 8G SD card
monitor	5 inch color touch screen
size	220 x 170 x 52mm
weight	1.5Kg
working environment	0~60℃, 95%RH
storage temperature	-20℃~82℃

IV.Main features

1. High-precision online testing, automatic range conversion, and large-capacity data storage.
2. The meter will automatically switch the range in the measuring range of 0.000-19990S.
3. 999 sets of battery parameters can be stored permanently (each set of up to 999 batteries), and 500 sets of battery set parameters can be stored permanently.
4. Battery capacity test range: 5AH-6000AH.
5. 5-inch color touch LCD screen, Chinese modular operation, Chinese prompts at every step, and the man-machine dialogue interface is very good.
6. The meter itself has chart display and column chart analysis functions.
7. The meter itself has the capacity analysis function, which can analyze the battery's superiority, goodness, and badness.
8. The instrument has an oscilloscope function: it can graphically display the maximum, minimum and average voltage of the battery in real time, and can calculate the voltage ripple.
9. Through the SD interface, the test data is permanently stored on the PC to realize the tracking and analysis of the battery's "medical record".
10. Powerful data management function enables the instrument to be used separately from the computer.
11. The enhanced overvoltage protection function makes the instrument work safer and more reliable.
12. The self-recovery over-current protection function makes the instrument more convenient to use.
13. The use of the latest SOC chip greatly simplifies the circuit and improves the reliability of the instrument.
14. Two sets of power supply, large-capacity lithium battery and adapter, are convenient for users.
15. Intelligent reminder of battery undervoltage to ensure test accuracy.
16. Small size and light weight.