BATTERY INTERNAL RESISTANCE TESTER MODEL-KM 930

■ PRODUCT INTRODUCTION

General rechargeable battery internal resistance tester Abbreviation: battery internal resistance tester. It is a measuring instrument used to measure the internal resistance, voltage and temperature of rechargeable batteries such as lead storage batteries and lithium batteries to determine the health of the battery. It can also be used as a meter to measure the ESR parameters of electrolytic capacitors (for reference only).This meter uses the AC 4-terminal test method to measure the internal resistance of the battery, and can measure the correct measurement value without being affected by the contact resistance between the test wire, terminal and battery electrode. It also has functions such as data storage, data access, alarm, and automatic shutdown. The whole instrument is high-grade and beautiful, with wide measuring range, high resolution, convenient operation, easy to carry, accurate, reliable, stable performance, and strong anti-interference ability. It is an indispensable instrument for battery production, battery installation, equipment production, equipment maintenance etc.



Preliminary Data


Test lead


Manual



■ RANGE AND ACCURACY

1. Resistance measurement accuracy

Range	Maximum display	Resolution	Accuracy	Measuring current
3 mΩ	3.100 mΩ	1 uΩ	±(1%fs + 20dgts)	200 mA
30 mΩ	31.00 mΩ	10 uΩ	±(0.5%fs + 15dgts)	200 mA
300 mΩ	310.0 mΩ	100 uΩ		20 mA
3 Ω	3.100 Ω	1 mΩ		2 mA

2. Voltage measurement accuracy

Range	Maximum display	Resolution	Accuracy
7 V	± 7.100 V	1 mV	±(0.2%fs + 10dgts)
70 V	± 71.00 V	10 mV	

3. Temperature measurement accuracy

Range	Maximum display	Resolution	Accuracy
-10.0℃~60.0℃	60.0℃	0.1℃	±1.0℃

■ TECHNICAL SPECIFICATIONS

Function	Battery internal resistance measurement, battery voltage measurement, temperature measurement		
Accuracy guaranteed temperature and humidity	23°C ± 5°C, below 75%rh		
Power supply	DC 3.7V lithium battery		**Power consumption** : 300mA MIN / 500mA MAX
Resistance resolution	1 μΩ	**Voltage resolution :** 1 mV	**Temperature resolution :**0.1°C
Measuring range	**Internal resistance measurement :** 0.000mΩ ~ 3.100Ω (4 ranges configuration)		
	Voltage measurement : 0.000V ~ ±71.00V (consisting of 2 ranges)		
	Temperature measurement : -10.0°C ~ 60.0°C (single range configuration)		
Maximum input voltage	DC 70V (between + measurement terminal and-measurement terminal), no AC input		
Response time	200ms	**Measure time** : About 2 seconds	
LCD Size	70.1mm×52.6mm /3.5 inches (320*240 resolution 16-bit true color screen)		
USB interface	With a USB interface, the stored data can be uploaded to the computer, saved and printed		
Hold and store function	Manual retention and storage, automatic retention and storage		**Bluetooth connection** :Yes
Measurement judgment function	Pre-set PASS, WARNING, FAIL judgment thresholds		
Battery voltage	The battery level is displayed in 5 bars, reminding to charge in time when the battery voltage is low		
Automatic shut-down	No operation when power on, it will power off automatically after about 15 minutes (can be turned off in the settings)		
Working temperature and humidity	-10°C ~ 40°C below 80%RH		
Storage temperature and humidity	-20°C ~ 60°C below 70%RH		
Insulation resistance	Above 20MΩ (500V between circuit and case)		
Withstand voltage	AC 3700V/RMS (between circuit and case)		
External magnetic field	< 40A/m		
External electric field	< 1V/m		
Suitable for safety regulations	IEC 61010		
Weight	Approx. 480g (With battery)		
Dimension	Approx. 190mm×121mm×51mm		
Accessories	Test leads, USB cable, Charger, Software CD, Instruction Manuals, Instruments box		