



Resistance Tester

Nvis TH2523 Battery Tester



TH2523

Features

- Multiple test functions
 - 4-terminal test, the test can't be influenced by impedance of test leads.
 - Contact inspection, to inspect the contact of test leads in testing
 - Deviation deduction (rel) and reference operation, eliminate the influence of base to test result.
- Feature of battery tester
 - Basic impedance accuracy: 0.1%
 - Basic voltage accuracy: 0.1%
 - Min. resolution of impedance: 1uΩ
 - Min. resolution of voltage: 100uV
 - Max. test speed 50 times/s
 - 1kHz AC constant current source test
- R, V, L, Z, θ test
- 24 bit color 4.3 inch LCD display
- LCD resolution 480×272
- Direct and Δ% display
- V, I test signal level monitor function
- Graphic scanning and analysis
- 10 bin compare, High limit, low limit, pass and alarm function
- Statistics, like CpK, Cp.etc
- 100 groups of file for storage and load
- Information in screen stored in U disk.
- Automatic update through USB HOST
- Chinese-English operation system selectable
- Foot switch trigger function
- Handler interface
- RS232、USB HOST、USB Device、GPIB (optional), for communication with PC and remote control

Brief Introduction

■ As the growth of electronic products, cell phone, home appliances, electric vehicle and bike emerge in an endless stream, all need to work with battery, so the fast inspection on batter will influence the performance of products.

With Tonghui's experience in impedance test and marketing survey, the new battery tester-TH2523 is successfully launched. It can be competitive with other similar products with its outstanding performance, easy operation and new look.

- 1kHz constant current source is adopted to eliminate the potential error of thermoelectric force to DUT.
- Max.300V(TH2523A) test voltage can meet the demand of high voltage battery
- 0.1% basic resistance accuracy, the range of 30mΩ-3000Ω can cover the test demand of large battery pack to button battery, and as well for large type but low resistance lithium battery
- The fast test speed can up to 20ms/time
- Meet the demand of ACR test for general components.
- TH2523 provides multiple interfaces, which is for PC communication and remote control.

Specifications

Model		TH2523	TH2523A
Display	Displayer	4.3 inch 480x272 24 bit color TFT display	
	Displayed digit	R: slow 5 digits, Max. displayed digit 35000; fast, Max. displayed digit 3500 V: slow 5 digit, Max. displayed digit 35000; fast, Max. displayed digit 3500	
Parameter		R,V,R-V,Z-θ°,Z-θr, L-Q,L-R,R-X,R-Q	
Basic accuracy		R:0.1%, V:0.05%	
Test signal source	Frequency	1kHz ±0.2Hz sine waveform	
	Constance current	100mA/10mA/1mA/100uA/10uA	
Display range	R/ Z/ X	1uΩ—3.5kΩ	
	DC V	100uV—65V	100uV—350V
	L	0.2nH-1H	
	Q	0.001—9999.9	
	θd(deg)	-179.99—179.99	
	θd(rad)	-3.1416—3.1416	
Mathematics		Direct, ΔABS, Δ%	
Range	AC R	30mΩ/300mΩ/3Ω/30Ω/300Ω/3kΩ	
	DC V	6V/60V	30V/300V
Max. input voltage		65V	350V
Test speed(time/s)		FAST: 50 times/s MED: 10 times/s SLOW1: 5 times/s SLOW2: 3 times/s	
Comparator		10 bins	
Range mode		Auto, hold	
Trigger mode		Internal, manual, external, bus	
Operation mode		Test leads contact inspection; DUT I/V monitor; REL; short "0"; 1-255 average; delay setting; graphic analysis and scanning; USB storage; Max.100 groups of file save/load; Statistics of Max.30000 of data	
Interface		Handler、RS232、USB DEVICE、 GPIB (optional)、USB HOST	
General specification			
Operating environment	Temperature	0°C -40°C	
	Humidity	≤90%RH	
Power supply	Voltage	100V-120V, 198V-242V	
	Frequency	47Hz - 63Hz	
Power consumption		Max.15AV	
Dimensions(WxHxD)		215mmx87mmx335mm(net) 235mmx105mmx360mm(with sheath)	
Weight		About 3.6k	

Application

- Fast test for button battery and battery pack .etc.
- For cell phone, home appliances, electric vehicle and bike .etc.
- For high voltage battery test
- For early battery R&D test
- Contact resistance test
- Degradation and lifetime - evaluation of battery
- UPS on-line test
- ESR test of super capacitor