

Resistance Tester

F. 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℃ -40℃ |
| | 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