Battery Tester SME1403





Features

- Multiple test functions
 - 4-terminal test, not 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: 1μΩ
 - Min. resolution of voltage: 100µV
 - 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 ∆% 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
- 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 phones, home appliances, electric vehicles and bike emerge in an endless stream, all need to work with battery, so the fast inspection on battery influences the performance of products.

The new battery tester SME1403 is 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 (SME1403A) test voltage can meet the demand of high voltage battery.
- 0.1% basic resistance accuracy, the range of $30m\Omega 3000\Omega$ 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 up to 20ms/time
- Meet the demand of ACR test for general components.
- SME 1403 provides multiple interfaces for PC communication and remote control.

Application

- Fast test for button battery and battery pack .etc.
- For cell phone, home appliances, electric vehicle and bike .etc.
- · High voltage battery test
- Early battery R&D test

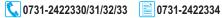
- Contact resistance test
- Degradation and lifetime evaluation of battery
- UPS on-line test
- ESR test of super capacitor

Model		SME1403	SME1403A	
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 / 100μA / 10μA		
Display Range	R/Z/X	$1\mu\Omega$ – 3.5kΩ		
	DC V	100μV – 65V	100µV – 350V	
	L	0.2nH – 1H		
	Q	0.001 – 9999.9		
	θd(deg)	-179.99 – 179-99		
	θd(red)	-3.1416 – 3.1416		
Mathematics		Direct, ΔABS, Δ%		
Range	AC R	$30m\Omega$ / $300m\Omega$ / 3Ω / 30Ω / 30Ω / $3k\Omega$		
	DC V	6V / 60V	30V / 300V	
Max. input voltag	ge	65V	350V	
Test speed (time/s)		Fast : 50 times/s Med : 10 times/s SLOW 1 : 5 times/s		
		SLOW 2:3 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, USB Host, GPIB (Optional)		
General Informa	tion			
Display		4.3 inch 480 x 272 24 bit color TFT Display		
Display Resolution		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.		
Operating	Temperature	0°C – 40°C		
Environment	Humidity	≤90% RH		
Power Supply	Voltage	100V – 120V, 198V – 242V		
	Frequency	47Hz – 63Hz		
Power consumption		Max. 15VA		
Dimensions (WXHXD)		215mm x 87mm x 335mm (net.) 235mm x 105mm x 360mm (with sheath)		
Weight		About 3.6kg		

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