

BT-8000

Battery Tester

FEATURES



Tests Internal Impedance & Open Circuit Voltage

Test

Resistance Range

4mΩ, 40mΩ, 400mΩ, 4Ω, 40Ω & 400Ω

AC four-terminal method

Comparator Function



BT-8000

Battery Impedance Meter

- Nickel-metal hydride battery (NiMH)
- Nickel-cadmium battery(NiCd)
- Lithium-ion battery(Li-ion)
- Lead-Acid battery
- Alkaline battery
- UPS maintenance
- Telecommunication
- Automotive

BT-8000 BATTERY IMPEDANCE METER



Application

- BT-8000 is an ideal tester for automotive, UPS maintenance and telecommunication applications.
- Quick response time.
- Simultaneously display the results of battery Impedance, voltage measurements.
- Support the comparator function to rate the conditions as pass, warning or fail.

FEATURES

- The Battery Tester is designed for measuring the internal impedance and open circuit voltage of the secondary battery including Nickel-metal hydride battery (NiMH), Nickel-cadmium battery(NiCd), Lithium-ion battery(Li-ion), Alkaline battery and lead-Acid battery.
- AC four-terminal method to measure the internal impedance by eliminating lead impedance and contact impedance to get the accurate results.
- Multi-display to show the internal impedance, voltage and clock of the battery simultaneously.
- It has 99 sets of composite comparator function, which can be set at impedance and voltage values to get the reliable detection of battery deterioration.
- Pin type leads, which can easily contact the battery electrodes supplied as standard to get more accurate 4-terminal measurement.

SPECIFICATIONS

- Display: LCD display and LEDs (comparator output).
- Sampling rate: 2 Second.
- Open-Circuit terminal voltage: 7.0Vp-p max.
- Input over range: the screen displays "OL".
- Low battery detection
- Auto power off: The meter will turn off automatically after about 15 minutes of inactivity, allows user to set the inactive time (01~99 minutes).
- Comparator settings: High and Low limits of the comparators impedance and voltage.
- Number of comparator settings: 99 sets.
- Manual and auto continuous Data logging: 9999 sets.
- Dimension: 240mm(L)x170mm(W)x66mm(H).
- Weight: about 1500g. (Including battery)

SPECIFICATIONS

Resistance measurements			
<ul style="list-style-type: none"> •Temperature coefficient : $\pm(0.1\% \text{ rdg}+0.5\text{digits})/ ^\circ\text{C}$. •Measurement current frequency: $1\text{KHZ}\pm 30\text{HZ}$. •Measurement open-circuit terminal voltage: 7Vp-p 			
Range	Resolution	Measurement current	Accuracy
4m Ω	1 $\mu\Omega$	150m A approx.	$\pm(1\% \text{ reading}+20\text{digits})$
40m Ω	10 $\mu\Omega$	150m A approx.	
400m Ω	100 $\mu\Omega$	50m A approx.	
4 Ω	1m Ω	15m A approx.	
40 Ω	10m Ω	1.5m A approx.	
400 Ω	100m Ω	150 μ A approx.	

Voltage Measurements		
Temperature coefficient: $(\pm 0.1\% \text{ rdg } \pm 0.5\text{digits})/^\circ\text{C}$		
Range	Resolution	Accuracy
6V	1mV	$\pm(0.1\% \text{ reading}+6\text{digits})$
60V	10mV	

Temperature measurement		
Measurement Range	Resolution	Accuracy
-20 $^\circ\text{C}$ ~60 $^\circ\text{C}$	0.1 $^\circ\text{C}$	$\pm 1.0^\circ\text{C}$
-4 $^\circ\text{F}$ ~140 $^\circ\text{F}$	0.1 $^\circ\text{F}$	$\pm 1.8^\circ\text{F}$
External T10 adapter and K-Type temperature measurement		
Measurement Range	Resolution	Accuracy
0 $^\circ\text{C}$ ~400 $^\circ\text{C}$	0.1 $^\circ\text{C}$	$\pm 2.0^\circ\text{C}$
32 $^\circ\text{F}$ ~752 $^\circ\text{F}$	0.1 $^\circ\text{F}$	$\pm 3.6^\circ\text{F}$

DC Current (DCA) measurement (optional)			
Range	Sensitivity	Resolution	Accuracy
700A	0.6A~700.0A	0.1A	$\pm(2.0\% \text{ reading}+5\text{digits})$

Electrical Specifications:(23 $^\circ\text{C}$ $\pm 5^\circ\text{C}$, below 80% RH)

For more information and ordering;



GLORY TEST LIMITED

6, Leben Court 36
Sutton Court Road
Sutton, SM1 4FF,
United Kingdom

Phone: +44 20 3290 1099
Email: info@glorytest.co.uk
sales@glorytest.co.uk
www.glorytest.co.uk