

WENS 900 Series Battery Quality Analyser



- Testing at System Loading condition
- Impedance, Voltage, Temperature, Current and Capacity measurements (simultaneously or independently)
- User Friendly Software

High Performance Battery Quality Analyser

Data Logger with Trend Analysis

Abundant Data Logging and Accurate Trend Analysis is available backed by Internal SD Card stored up to 7.5 million data in Text or Graphic mode

- The Battery Quality Analyser is designed for measuring the internal resistance, opencircuit voltage, and terminal temperature of secondary batteries, including Lead Storage Cells (Lead -Acid batteries), nickel-cadmium batteries, lithium-ion batteries and nickel-metal hydride batteries.
- AC four-terminal method to measure the internal resistance by eliminating lead resistance and contact resistance to get the accurate results.
- Multiple display to show the internal resistance, voltage and temperature or voltage, current and temperature of the battery simultaneously.
- It has 99 sets of composite comparator function, which can be set at resistance and voltage values to get the reliable detection of battery deterioration.
- Pin type lead, which can easily contact the battery electrodes supplied as standard to get more accurate 4-terminal measurement.
- Clamp adaptor for DC current or AC current measurements.

Applications

Field Management of UPS Back Up batteries in Industrial Systems -Telecom. Renewable Energy Power Plant (Solar, Water, Wind), Recreational, Marine, Airplane, Military, Electric Vehicle And Battery Related Industry (Manufacturer, Dealer) of most batteries including Lead Storage Cells (Lead-Acid batteries), nickel-cadmium batteries, lithium-ion batteries and nickel-metal hydride batteries.

Unsurpassed Performance in a Portable, Compact Package

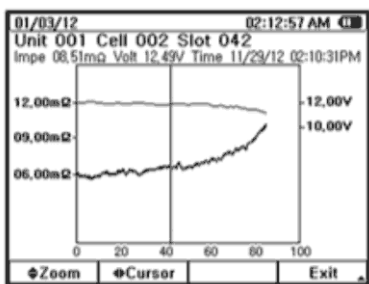
Battery Health Analysis Information.

Comparator on Impedance, Voltage Auto Hold and Data Storage

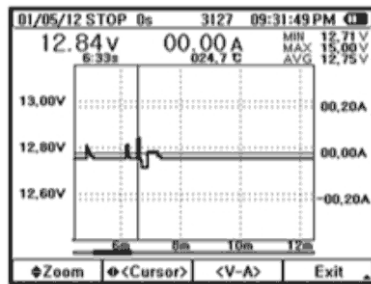
Interface : USB Host / Client 2.0 Large 3.8" 320 x 240 pixel High

Resolution Monochrome LCD display.

Super Tool in Field Measurements and Management of UPS batteries



Deterioration Trend Curve
Analysis

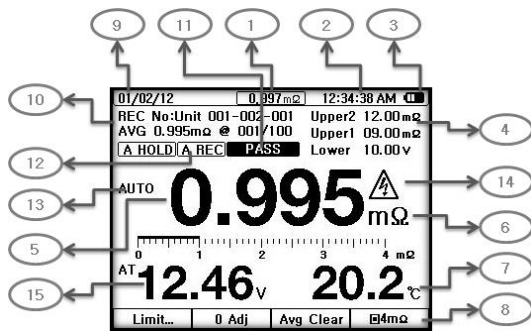


Data Logger

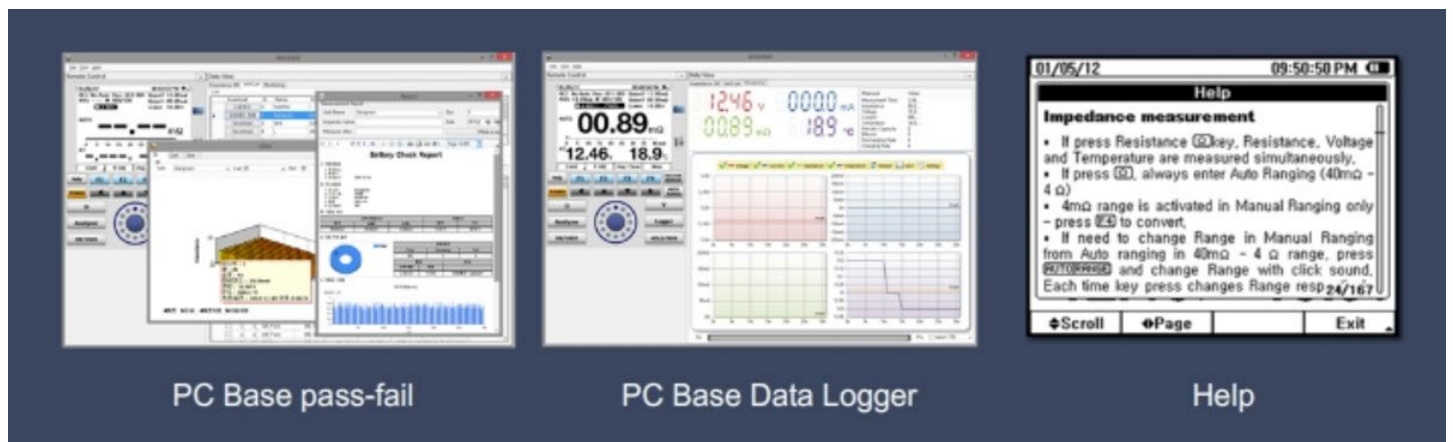
Record No	Unit	Cell	Time
100	001	022	11/29/12
099	001	022	11/29/12
098	001	022	11/29/12
097	001	022	11/29/12
096	001	022	11/29/12

Analyser

LCD Display



1. Present Measurement Value when AutoHold mode
2. Measurement Data and Time
3. Battery / Adapter Sign
4. Limit : Upper, Lower
5. Impedance Value Display
6. Unit of Measurement
7. Temperature Value Display
8. 4m Convert key
9. "Unit-Cell-Times" display
10. Measurement Ave range and number of Averaged data
11. (displayed with Auto Hold)
12. Limit (Comparator) Pass - Warning-Fail
13. Auto Saving : When Auto Holding, Auto Saving is automatically
14. activated . Saved at Auto Record Memory in order, max 300
15. cells x 100 times measurement Record number : storage date
16. Recording Number.
17. Auto : Auto, manual ranging
18. Warning Sign
19. DC Voltage measurement



Electrical Specifications

Impedance Measurement	Range	4m ~ 4 (4 range)/1u resolution
	Accuracy	0.8%rdg 10dgts
	Voltage Range	max 100V
	Ah range	5 ~ 6000 Ah
Voltage Measurement : Differential Input	Range	4V, 40V, 300V (3 range)
	Accuracy	0.5%rdg 5dgts
DC Current (Float Current) Measurement.CT	Range	40A/400A
	Accuracy	1%rdg 5dgts (CT Accuracy added)
AC Current (Ripple Current) Measurement.CT *Option	Range	40A/400A
	Accuracy	1%rdg 5dgts (CT Accuracy added)
Temperature	Range	-10 C ~ 100 C / 14 F ~ 212 F
	Accuracy	2 C 3.6 F
	Battery Temperature Measurement	Internal Sensor
	Guaranteed Accuracy	23 C +/-5 C, non-condensing
Capacity Measurement *WENS 900C only	% SOC, Efficiency, Ah, Wh	
Safety	Certified EMS. LVD 61010-1 CAT II 300V DC	

General Specifications

Display	3.8" Graphic Monochrome LCD Module (320*240)
Input Method	Differential (Impedance, DC Voltage)
Auto Power OFF	User Select at User mode
Maxim Voltage Input	300V DC
Interface	USB 2.0 (Standard), Bluetooth (Option) Wi-Fi (Option)
Operating Temperature	0 ~ 40 C, 80% RH or Less
Continuous Operating Time	6 hours
Power Supply	7.2V, 2.7A NiMH Battery Pack (2)
Line Power	12V, 1A Adapter
Dimensions	107mm (W) x 220mm (H) x 55mm(D) / 4.2"x 8.3"x 2.2"
Weight (Main Unit only)	1.2kg / 2.6 lbs