

# Battery Quality Analyzer WENS 900 Series

Single, Quick Testing
Total Battery Quality Analysis Solution

## Super Tool for UPS Battery field Management

### **Battery Health Analysis**

Testing at Variable Loading condition Impedance, Voltage, Temperature, Current measurements (simultaneously or independently)

User Friendly Software



WENS

Alternative Graphing Power



# High Performance Battery Quality Analyzer Data Logger with Trend Analysis

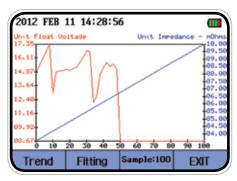
Abundant Data Logging and Accurate Trend Analysis is available backed by Internal SD Card stored up to 100,000 (100K) data. In Text or Graphic mode

- The Battery Quality Analyzer 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.
- Dual display to show the internal resistance and voltage 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.
- Clip type lead with temperature sensor.
- Clamp adaptor for DC current measurements.

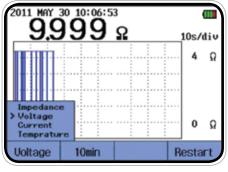
# Comparator settings: Impedance / voltage High / Low limits.

#### Comparator output:

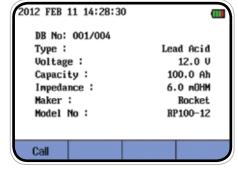
LCD display of PASS, WARNING, or FAIL results and beeper for warning and fail results.



Curve Trend Analysis



Data Logger



Analyzer

#### **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 on remaining operationrunning time on Present capacity measurement at variable Loading condition.

Comparator on Impedance, Voltage Auto Hold and Data Storage Interface: USB Host / Client 2.0 Large 4 "320 x 240 pixel High Resolution Color LCD display.

Super Tool in Field Measurements and Management of UPS batteries







Preparation
The following safety information must be observed to ensure maximum personal safety during the operation of tester.

I. To avoid electric shock the batteries first disconnect the leads from the object to be measured.

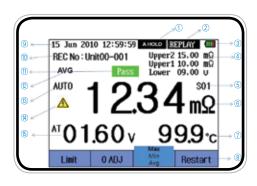
When replacing the batteries, do not install old bat with new ones do not mix different types of bat

Help

PC Base pass-fail

PC Base Data logger





#### LCD Display

① AH: auto-hold function is on,

② Replay : Recording Data Replay

3 Battery Remain Sign

4 Limit: Upper1, 2(Impedance), Lower(Voltage) Value Setting

 $\ensuremath{\mathfrak{D}}$  Battery Connection State : Serial, Parallel, Battery Number

(6) Impedance Value Display

7 Temperature Value Display

® Restart : Function Restart

Measurement Date Display

® Record Number: Storage Date Recording Number

 $\scriptsize{\mbox{(1)}}$  Pass, Warning, Fail : Indicates that the tested battery result

② Average, Minimum, Maximum value display

(13) Auto: auto, manual ranging

(4) Warning: Over voltage warning(60V)

(5) Battery voltage measurement









#### **Electrical Specifications**

• Impedance Measurement

Range :  $4m\Omega \sim 4\Omega$  (4 range)/1u $\Omega$  resolution Accuracy :  $\pm 0.8\%$ rdg  $\pm 10$ dgts

· Voltage Measurement : Differential Input

Range : 4V, 40V, 400V (3 range) Accuracy :  $\pm 0.5\%$ rdg  $\pm 5$ dgts

• Current Measurement (CT)

Range: 0.5A ~ 400A

Accuracy: ±1%rdg ±5dgts (CT Accuracy added)

DC Current (Direct)
 Range: 400mA/4A

Accuracy:  $\pm 0.5\%$ rdg  $\pm 5$ dgts

• Temperature

Range: -10°C ~ 100°C/14°F ~ 212°F

Accuracy :  $\pm 1^{\circ}C \pm 1^{\circ}F$ 

Battery Temperature Measurement : Internal Sensor\_ Guaranteed Accuracy : 23°C +/-5°C, non-condensing

#### **General Specifications**

Measurement Item

: Impedance, DC Voltage, DC Current, Temperature

 Sampling Rate: 1 MSPS (Impedance, Voltages, Temperature and DC Current Measurement)

• Display: 4" Graphic Color LCD Module(320\*240)

• Input Method : Differential (Impedance, DC Voltage)

• Auto Power OFF: User Select at User mode

• Maxim Voltage Input: 400V

Operating Temperature : 0 ~ 40° C, 80% RH or Less

• Continuous Operating Time: 10 hours

Power Supply: 7.2V, 2.7A NiMH Battery Pack (2)

• Line Power: 12V, 2A Adaptor

• Dimensions

: 107m (W) x 220mm (H) x 55mm(D) / 4.2" x 8.3" x 2.2"

• Weight (Main Unit only): 1.2kg / 2.6 lbs

Specifications subject to change without further notice

#### WENS

A ISO 9001 · 14001 Certified Manufacturer

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Distributor

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