Battery Quality Analyzer

TEKON® 960

To prevent faults or quality issues in critical battery back-up applications caused by defects in stationary batteries, TEKON960 battery quality analyzer enables the user to diagnose and evaluate the performance and the degree of ageing by testing the conditions of individual batteries (1000V max) in type of cell, module or pack. TEKON960 can handle virtually all battery testing (e.g. aged status of battery under test and the condition of a power system) in systems that use high-voltage battery packs, such as ESS, EV, HEV and PV as well as UPS.

Features

- Measures internal resistance of 1000V max of batteries
- Measures voltages at battery (DC1500V)
- Measures voltage of UPS (AC1000V)
- Measures ripple voltage, current and temperature
- Diagnoses ageing of battery and predicts its use life (to determine timing for replacement)
- Can conduct history management of battery using 8MB memory
- Auto Hold and Data Storage
- Prints out measurement data in reports
- Transmits measurement data to remote locations (e-mail, server) using Mobile App

General specifications

Power (battery)	7.2V/5.2Ah Li-ion, 12V/2.5A DC adaptor
Data storage	Micro SD Card (8GB)
Communication	Bluetooth Ver2.1 + EDR Class2
LCD display	1024x600 pixels, 7" TFT with TSP
Operating temp/ humidity	0°C ~ 45°C, RH 85% max
Storage temp/ humidity	-20°C ~ 60°C, RH 85% max
Compliant standards	IEC 61010-1 CAT IV 600V, CAT III 1000V Pollution Degree 2, IEC 61010-2-030, IEC 61010-031, IEC 61326, EN 50160, IEC 61000-4-30 Class S, IEC 61000-4-15, IEC 61000-4-7
Dimension	240(L)×160(W)×65(H) mm
Weight	900g

Electrical specifications

Measurement of resistance (Auto/Manual)

Range	Resolution	Measurable current	Accuracy
3mΩ	1uΩ	100mA	±0.8%rdg±10dgts
30mΩ	10uΩ	100mA	±0.5%rdg±10dgts
300mΩ	100uΩ	10mA	
3Ω	1mΩ	1mA	
30Ω	10mΩ	0.1mA	
300Ω	100mΩ	0.1mA	
3KΩ	1Ω	0.1mA	

DCV (Auto/Manual)

Range	5, 50, 500V, 1500V
Resolution	1mV
Accuracy	±0.5%rdg±5dgts

ACV

Range	0~1000V
Resolution	100mV
Frequency	40Hz~100Hz
Accuracy	±0.75%rdg±10dgts

Ripple voltage

Range	0~5V
Resolution	1mV
Frequency	40Hz~10Hz
Accuracy	±5.0%rdg±10dgts

Measurement of temperature

Range	-10°C ~ 100°C
Resolution	0.1°C
Accuracy	±1°C+2dgts

DC

Range	4, 40, 400A
Resolution	1mA
Accuracy	±0.5%rdg±5dgts (+CT Tolerance)

AC

Range	4, 40, 400A
Resolution	1mA
Accuracy	±0.75%rdg±10dgts (+CT Tolerance)

Accessories

Standard	Pin-type Kelvin Probe, Test Lead, Li-ion battery (7.2V/5.2Ah), 12V/2.5A adaptor, Zero-Bar, Portable bag, PC Program, User's Manual, clamp-on/950B
Optional	Extensible rod (500mm), clamp, Clip-type Kelvin probe

7 2V/5.2Ah
Li-ion battery Pack

Zero Bar

Extensible rod
(500mm)

Test Lead

Kevin Probe (Pin)

Kevin Probe (Clip)

Comparison of functions in TEKON950 Series

Function		TEKON960A	TEKON960B
Impedance	Scale	3mΩ~3KΩ	3mΩ~3KΩ
	Accuracy	±0.8%	±0.8%
	Max Test Voltage	500V	1000V
DC/V		0~1500V	0~1500V
AC/V		0~1000V	0~1000V
Ripple Voltage		0~5V	0~5V
DC/A(Floating Current)		4A/40A/400A	4A/40A/400A
Ac/V(Ripple Current)		4A/40A/400A	4A/40A/400A
Temperature		NTC	NTC
Analyzer	Trend	o	o
	Change time	o	o
Data record		8MB	8MB
PC Interface		Bluetooth	Bluetooth
External Interface		Mobile App	Mobile App
Auto Hold		o	o
Auto Record		o	o