

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 (500V 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 500V max of batteries
- Measures voltages at battery (DC1000V)
- Measures voltage of UPS (AC600V)
- 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	USB(Bluetooth)
LCD display	1024x600 pixels, 7" TFT with TSP
Operating temp/ humidity	0°C - 50°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)x160(W)x65(H) mm
Weight	900g
Case Color	Black

Electrical Specifications

Measurement of Resistance (Auto/Manual)			
Range	Resolution	Measurable current	Accuracy
3mΩ	1uΩ	100mA	±1.0%rdg±10dgt
30mΩ	10uΩ	100mA	±0.8%rdg±10dgt
300mΩ	100uΩ	10mA	
3Ω	1mΩ	1mA	
30Ω	10mΩ	0.1mA	
300Ω	100mΩ	0.1mA	
3KΩ (Optional)	1Ω	0.1mA	

DC/V (Auto/Manual)	
Range	5, 50, 500V, 1000V
Resolution	1mV
Accuracy	±0.5%rdg±5dgt

AC/V	
Range	0-600V
Resolution	100mV
Frequency	40Hz-100Hz
Accuracy	±0.75%rdg±10dgt

Ripple Voltage	
Range	0-5V
Resolution	1mV
Frequency	40Hz-10KHz
Accuracy	±5.0%rdg±10dgt

Measurement of Temperature	
Range	-10°C - 100°C
Resolution	0.1°C
Accuracy	±1°C±2dgt

Measurement of Humidity	
Range	0 - 100%RH
Resolution	1%RH
Accuracy	±2%(20-80%RH)

DC Current	
Range	4, 40, 400A, 1000A
Resolution	1mA
Accuracy	±0.5%rdg±5dgt (+CT Tolerance)

AC Current	
Range	4, 40, 400A, 1000A
Resolution	1mA
Accuracy	±0.75%rdg±10dgt (+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, Current Clamp(T130BE) / 960B
Optional	Current Clamp(T130BE), Current Clamp(T135BE), Kelvin Probe(cip), Kelvin Probe(Pin), Extensible Rod(500mm), Wireless printer

Comparison of Functions in TEKON960 Series

Function		TEKON960A	TEKON960B
Impedance	Scale	3mΩ-300Ω	3mΩ-3KΩ
	Accuracy	±0.8%	±0.8%
	Max Test Voltage	200V	500V
DC/V		0-500V	0-1000V
AC/V		0-500V	0-600V
Ripple Voltage		0-5V	0-5V
DC/A		4A/40A/400A/1000A	4A/40A/400A/1000A
AC/A		4A/40A/400A/1000A	4A/40A/400A/1000A
Temperature		o	o
Humidity		o	o
Analyzer	Trend	o	o
	Change time	o	o
Data record		8MB	8MB
PC Interface		USB(Bluetooth)	USB(Bluetooth)
External Interface		Mobile App	Mobile App
Auto Hold		o	o
Auto Record		o	o