

Energy Storage System Battery Quality Analyzer

TEKON® 970

To prevent faults or quality issues in critical battery back-up applications caused by defects in stationary batteries, TEKON970 ESS (Energy Storage System) Battery Quality Analyzer enables the user to diagnose and evaluate the performance and the degree of ageing by testing the conditions of individual batteries (1500V max) in type of cell, module or pack.

TEKON970 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 1500V 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	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 5, IEC 61000-4-15, IEC 61000-4-7
Dimension	270(L)x246(W)x124(H) mm
Weight	3.0kg
Case Color	Orange/Yellow, Black

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)
Optional	Current Clamp(T130BE), Current Clamp(T135BE), Kelvin Probe(cip), Kelvin Probe(Pin), Extensible Rod(500mm)

Electrical Specifications

Measurement of Resistance [Auto/Manual]			
Range	Resolution	Measurable current	Accuracy
3mΩ	1μΩ	100mA	±1.0%rdg±10dpts
30mΩ	10μΩ	100mA	
300mΩ	100μΩ	10mA	
3Ω	1mΩ	1mA	±0.8%rdg±10dpts
30Ω	10mΩ	0.1mA	
300Ω	100mΩ	0.1mA	
3KΩ(Option)	1Ω	0.1mA	

DC/V (Auto/Manual)	
Range	5, 50, 500V, 1500V
Resolution	1mV
Accuracy	±0.5%rdg±5dpts

AC/V	
Range	0-1000V
Resolution	100mV
Frequency	40Hz-100Hz
Accuracy	±0.75%rdg±10dpts

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

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

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±5dpts (+CT Tolerance)

AC Current	
Range	4, 40, 400A, 1000A
Resolution	1mA
Accuracy	±0.75%rdg±10dpts (+CT Tolerance)

Display

