

The logo for TEKON, featuring the word "TEKON" in a bold, italicized, blue sans-serif font with a registered trademark symbol (®) to the upper right.

TEST & MEASUREMENT
INSTRUMENTS



www.tekon.co.kr

TEKON[®]

TEKON[®] is a customer-oriented solution provider by offering measurement systems ensuring the highest level of precision, safety and durability, such as battery quality analyzer, power quality analyzer, EESS performance test system, transformer analyzer, EV/HEV test and motor pump tester used in applications of testing RMS (Risk Management System), FMS (Facility Management System) and EMS (Energy Management System).



EV/HEV Diagnostic

TEKON® 800

TEKON800 EV/HEV diagnostic is a testing system capable of comprehensively testing the performance characteristics of power system in hybrid-electric (HEV) and electric vehicles (EV). This is a portable type tester dedicated to EV and HEV, which offers comprehensive power measurements and analyses including internal faults and degree of ageing of parts used therein.

Key functions for measurements : Analysis of power (AC/three-phase, DC), internal resistance of battery pack, motor, harness, insulation resistance, harmonics analysis

Features

- EV, HEV battery pack (BMS), motor control unit (MCU), power, cable assembly, sensor electrical performance diagnosis.
- Measurement of EV/HEV inspection items, including judgment of acceptable/non-acceptable according to EV/HEV inspection directives
- Generates standardized inspected records and system performance reports
- Measures internal resistance (m Ω) of EV/HEV battery pack (500V max)
- Measures three-phase power (1P2W, 3P3W, 3P4W)
- Measures waveforms (4 channels)
- Measures harmonic spectrum (up to 50st harmonic)
- Measures insulation resistance
- Measures contact resistance (optional)
- Removable wireless printer applied
- Enables the user to download, view and analyze stored data, and make up reports



General specifications

Power (battery)	7.2V/5.2Ah Li-ion, 12V/2.5A DC adaptor
Data storage	Micro SD card (8GB), 32GB max
Communication	USB Ver2.0, Bluetooth Ver2.1 + EDR Class2
LCD display	1024×600 pixels, 7.0-inch color TFT display (touch panel)
Operating temp/ humidity	0°C ~ 45°C, RR 85% max
Storage temp/ humidity	-20°C ~ 60°C, RH 85% max
Compliant standards	IEC 61010-1 CAT IV 300V, CAT III 600V Pollution Degree 2, IEC 61010-2-030, IEC 61010-031, IEC 61326, EN 50160
Dimension	270(L)×246(W)×124(H) mm
Weight	3.0kg
Case Color	Black, Yellow, Orange

Check & inspection of EV/HEV

Check and verification

Div	Inspection item
General check	High voltage, safety condition, contact state
Motor System	Motor Control Unit (MCU), Power, High Voltage Cable Condition, Motor Assembly, Position Sensor, Temperature Sensor
Vehicle Control system	Power Control System, Inverter, Battery, DC Converter
Battery control system	Connector (contact resistance), BMS (voltage, internal resistance, temperature), Battery pack condition, Insulation status, Battery control system, High voltage charging system
Power Cable, Sensor	Insulation Resistance, Contact Resistance, Sensor status

Electrical specifications

Battery internal resistance (Auto/Manual)

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

Power Quality Analyzer

Voltage input	AC+DC
Input channels	4
Voltage range(L-N)	Phase voltage (L-N) : 50 ~ 1000VRMS Line voltage (L-L) : 50 ~ 1730VRMS
Measurable range	10% ~ 150% of nominal voltage
Sampling	10.24k Samples/sec @ 50/60Hz
Frequency	40 ~ 70Hz ± 20mHz
Current input	AC+DC
Input channels	4
Measurable range	(Current clamp-on used) 50m ~ 1000ARMS ± 0.5% of mV

Measurement of waveforms

Channel	4
Bandwidth	DC to 100Hz

Measurement of harmonic

Order of harmonic	50st, Max
Display	Chart, Data

Insulation Resistance

Test voltage	100V, 250V, 500V, 1000V
Measurable range	10kΩ ~ 200GΩ
Test current	1mA
- Measuring Mode: t, PL, DAR, INS	

Temperature & Humidity (operating environment)

Measurement	Measurable range	Accuracy
Temperature	-40°C ~ 125°C	±0.3°C(10~60°C)
Humidity	0 ~ 100%RH	±2%(20~80%RH)
- Built-In temp/humidity sensor		

Accessories

Standard	Insulation Test Cable, Test Lead, 12V/2.5A power adaptor, 7.2V/5.2Ah Li-ion battery, USB cable, Micro SD card (8GB), Portable bag, PC S/W, User's manual
Optional	Rogowski Coil(dia. 100mm) AC 5A, 50A, 500A, 1000A Current Clamp



Rogowski Coil (200A)



Test Lead



7.2V/5.2Ah Li-ion battery Pack



12V/2.5A Adapter

Power Quality Analyzer

TEKON 550

TEKON 560

Transformer Turn To Ratio

TEKON 600

Transformer Analyzer

TEKON 610

Energy Storage System Diagnostic

TEKON 650

Industrial Robot Diagnostic

TEKON 700

EV/HEV Diagnostic

TEKON 800

Battery Quality Analyzer

TEKON 950



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