

# Power Quality Analyzer Multifunction Electrical Tester

## **TEKON**® 550

A Power Quality Analyzer measures electrical power characteristics of devices that generate, transform or consume electricity; TEKON550 Series (A, D) are handheld instruments that accurately measure and analyze electrical parameters and incorporate cable tester functions for better convenience in use. These portable devices also allow laboratory personnel, production facility maintenance professionals and electricians to troubleshoot and benchmark power quality issues in their daily jobs.

### Features

- Measurement of power quality: Power, power factor (PF), THD (%), unbalanced rate (%)
- 1P2W, 3P3W (balance), 3P3W (imbalance/sequential measurement), 3P4W (imbalance/sequential measurement)
- Harmonic : 50th (chart/graphic)
- Measurement of voltage, current waveforms
- Measurement of inrush current
- Event analysis
- Current sensor: clamp-on sensor
- Function of cable detection (550D)
- Records and displays the quality of power



## General specifications

### Common specifications

Dimension & weight	100mm(W)×220mm(H)×54mm(D), Approx 800g
LCD display	3.5" 240×160 pixels, monotype graphic
Power	7.2V 2.5AH NiMH battery pack, DC12V/1A adaptor
Charge time	4 hours
Battery life time	8 hours (max)
Product safety	CATIII 600V, EN/EC61010-1, Pollution Degree 2
PC communication	Bluetooth

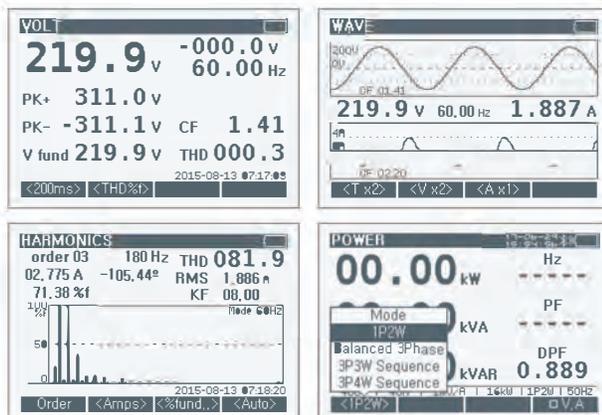
## Comparison of functions by model

Function	TEKON550A	TEKON550D
DC voltage	1mV-600V	1mV-600V
AC voltage	1mV-600V	1mV-600V
DC	10mA-1000A	10mA-1000A
AC	10mA-1000A	10mA-1000A
Power	16W-600kW	16W-600kW
Accumulated power	○	○
Waveform measurement	DC to 100Hz	DC to 100Hz
Inrush current	○	○
Harmonic	1 <sup>th</sup> ~ 50 <sup>th</sup>	1 <sup>th</sup> ~ 50 <sup>th</sup>
THD	○	○
Trend analysis	○	○
Data storage	20	20
Cable tester	x	○

## Accessories

Standard	Tester lead, CT (400A), NiMH battery pack, User's Manual, PC program, 12V/1A adaptor, bag
Option	AC 400A CT (clamp-on type) AC 1000A Current Clamp

## Display



## Electrical specifications

### Measurement of power (Auto/Manual)

Power	1P2W, 3P3W (balance), 3P3W, 3P4W (sequential measurement)
Measurement range	16W-600kW
Measurement parameters	Active power, inactive power, apparent power
Resolution	100mW
Quality of power	Power, power factor (PF), THD (%), unbalanced rate (%)
Frequency	40Hz-200Hz

### Measurement of Energy (Auto)

Measurement value	Active power, inactive power, apparent power
CO2 emission	Displayed simultaneously with energy measurement

### Measurement of waveform (Auto/Manual)

Measuring mode	Measures voltage and current at the same time
Bandwidth	DC to 100Hz

### Inrush current

Target	Current
Waveform	Time, measurement value

### Measurement of harmonic

Order of harmonic	1th ~ 50th
Display of measurement value	Chart, graph
Target	Voltage, current

### THD (Total Harmonic Distortion)

Measuring mode	Voltage, current
Display of measurement value	THD-F, THD-R

### DC Voltage (Auto/Manual)

Measurement range	4V, 40V, 400V, 600V
Resolution	1mV
Accuracy	±0.5% + 5 dgts

### AC Voltage (Auto/Manual)

Measurement range	4V, 40V, 400V, 600V
Resolution	1mV
Accuracy	±0.75% + 5dgts(40Hz-200Hz)

### DC Current/Manual

Measurement range	4A, 40A, 400A, 1000A
Accuracy	±0.5% + CT Tolerance

- Current sensor: Selects in User Mode

### AC Current/Manual

Measurement range	4A, 40A, 400A, 1000A
Accuracy	±0.75% + CT Tolerance(40Hz ~ 200HZ)

- Current sensor: Selects in User Mode

- Flexible (Rogowski coil) current sensor (1000A) applied

### Trend Mode

Setting	Sampling time
Max sampling	2,400 cases
Analysis	Cursor variable, Data storage

### Event analysis

Target	Swell, Dip, Interrupt
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### Storage of measurement data

Type of storage	Snapshot
Max storage	20