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



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/IEC61010-1, 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	0	0
Waveform measurement	DC to 100Hz	DC to 100Hz
Inrush current	0	0
Harmonic	1 th ~ 50 th	1 th ~ 50 th
THD	0	0
Trend analysis	0	0
Data storage	20	20
Cable tester	×	0

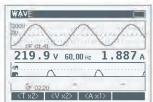
Accessories

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







POWER	10-0F-5d \$W
00 00	Hz
00.00kw	PF
Mode	
Balanced 3Phase	DPF
3P3W Sequence kVAF	0.889
<1P2W>	6kW 1P2W 50HZ

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

Measurement of v	vaveform (Auto/Manual)
Measuring mode	Measures voltage and current at the same time
Bandwidth	DC to 100Hz
Inrush current	
Target	Current

Time, measurement value
rmonic
1th ~ 50th
Chart, graph
Voltage, current

THD (Total Harmon	ic 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/M Measurement range	4V. 40V. 400V. 600V	
Resolution	1mV	
Accuracy	±0.75% + 5dgts(40Hz~200Hz)	

DC Current/Manua		
Measurement range	4A, 40A, 400A, 1000A	
Accuracy	±0.5% + CT Tolerance	
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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) applie	d

Trend Mode	
Setting	Sampling time
Max sampling	2,400 cases
Analysis	Cursor variable, Data storage
Event analysis	7.0
Target	Swell, Dip, Interrupt
Storage of meas	urement data