

Transformer Turn To Ratio



TEKON® 600

TEKON600 is a tester that measures the turns ratio of windings in single-phase and three-phase distribution with the application of 7" wide touchscreen aimed to maximize user convenience. In particular, it can be used anywhere as it is powered by chargeable battery. Selectable test voltages include 5Vac, 10Vac, 40Vac, enabling you to measure a variety of transformers.

It uses the IEEE C57.12.90 measurement method and accurately measures the voltage at the transformer's winding at no load. The TEKON600 can be used to test power regulator, power transformer, CT (Current Transformer) and PT (Potential Transformers).

This model is divided into two: TEKON600-1P (single-phase) and TEKON600-3P (three-phase). You are able to print out measurement data via printer, save them to the meter's internal memory, or download to your PC.

Features

- Portable with robust and lightweight enclosure
- Simultaneously measures turns ratio, excitation current, polarity and phase angle
- Verifies limiter settings: function to judge whether acceptable or non-acceptable
- Application of dockable wireless printer (bluetooth) [Optional]
- Micro SD 8GB applied as basic memory.
- Measurements automatically saved to designated storage space in real time
- Automatic measurement and display of measurement result
- Communication: USB
- Output of measurement data in reports
- Chargeable battery (Li-ion) operated
- Removable wireless printer applied



General Specifications

LCD display	1024×600 pixels, 7.0-in color TFT screen (touch panel)
Power(battery)	7.2V/5.2A Li-ion, 12V/2.5A Adaptor
Communication	USB, Bluetooth
Print	External printer (Bluetooth)
Data Storage	MicroSD(8GB)
Operating temp/ humidity	0°C ~ 50°C, RH 85% max
Storage temp/ humidity	-20°C ~ 60°C, RH 85% max
Dimension	270(L)×246(W)×124(H) mm
Weight	3.5kg
Case Color	Black, Yellow, Orange

Electrical Specifications

Measurement of Turns Ratio (1P/3P)				
Type		Range	Resolution	Accuracy
Ext Voltage	5V	1~1999	0.0001~0.1	± 0.15%
		2000~4000	0.1	± 0.3%
	10V	1~1999	0.0001~0.1	± 0.1%
		2000~4000	0.1	± 0.25%
		4000~10000	0.1~1	± 2.5%
	40V	1~1999	0.0001~0.1	± 0.1%
2000~4000		0.1	± 0.25%	
		4000~15000	0.1~1	± 3.0%
Ext current		0~1A	0.1mA	
Phase Angle		Range : 0~360 degree Accuracy : ±0.2degree + 2dgts		
Polarity		Displayed on screen		

Temperature & Humidity (Operating Environment)		
Measurement	Measurable range	Accuracy
Temp	-40°C ~ 125°C	Non-specification
Humidity	0 ~ 100%RH	Non-specification

- Built-in temp/humidity sensor

Accessories

Standard	TTR Cable Assembly, 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	TTR Cable Assembly(3m), TTR Cable Assembly(10m) Wireless Printer

Display

