

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 and 100Vac (optional), 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, Bluetooth
- Output of measurement data in reports
- Chargeable battery (Li-ion) operated

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
Data Storage	MicroSD(8GB)
Operating temp/ humidity	0°C ~ 45°C, RH 85% max
Storage temp/ humidity	-20°C ~ 60°C, RH 85% max
Dimension	270(L)×246(W)×124(H) mm
Weight	3.0kg
Case Color	Black, Yellow, Orange

Electrical specifications

Measurement of turns ratio		
Type	Single-phase	Three-phase
Range for turns ratio	5Vac 1~1,999(0.1%) 2,000~3,999(0.25%) 4,000~15,000(2%)	5Vac 1~1,999(0.1%) 2,000~3,999(0.25%) 4,000~15,000(2%)
	40Vac 1~1,999(0.15%) 2,000~3,999(0.3%) 4,000~15,000(1%)	40Vac 1~1,999(0.1%) 2,000~3,999(0.25%) 4,000~15,000(1%)
Excitation voltage	1V, 5V, 10V, 40V	1V, 5V, 10V, 40V
Excitation current	0~1A	0~1A
Phase angle	Range: 0~360degree Accuracy: ±0.2degree+2dgts	Range: 0~360degree Accuracy: ±0.2degree+2dgts
Polarity	Displayed on screen	Displayed on screen

Temperature & Humidity (operating environment)		
Measurement	Measurable range	Accuracy
Temp	-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	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
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TTR Cable Assembly



7.2V/5.2Ah Li-ion battery Pack