



Transformer Turns Ratio Tester

تست نسبت تبدیل ترانس



The complete toolbox for three-phase testing and measuring the turns ratio, excitation current, and phase shift of power, distribution and current transformers .

Features

- Ratio range 45000 : 1
- Adjustable excitation test voltage: 1V to 250V
- Excitation current range: 1uA to 1A
- Phase shift accuracy: $\pm 0.05^\circ$
- Automatic detection of 130 vector groups
- Tap changer continuity test
- Built-in tap changer control unit
- Providing user safety with an emergency stop button
- Portable, heavy-duty, and light weight case
- Extremely reliable and easy to use
- USB, WIFI connectivity
- User-friendly mobile app.

Applications

- High power transformer manufacturers
- Repair and maintenance of electrical power plant companies
- Electrical power plant EPC companies
- Electrical power labs
- Big factories e.g. Steel, petrochemicals, refineries, and ...



TTR10 Specifications

Specifications are valid at nominal input voltage and an ambient temperature Of +25°C, (77°F).
Specifications are subject to change without notice.

General

Type	Portable Transformer Turns Ratio Tester
Input Power	220V AC / 50 Hz
Dimensions (L x W x H)	Basic Unit: 460 x 330 x 120 mm
Weight	Basic Unit: 7.7 kg

Measurement

Turns Ratio	Range	45000 : 1	
	Accuracy@250VAC	1-1999: ±0.1%, 2000-3999: ±0.1%, 4000-9999: ±0.3%, 10000-19999: ±0.5%, 20000-45000: ±1%	
	Accuracy@100VAC	1-1999: ±0.1%, 2000-3999: ±0.3%, 4000-9999: ±0.5%, 10000-19999: ±1%, 20000-45000: ±1.5%	
	Accuracy@40VAC	1-999: ±0.1%, 1000-1999: ±0.5%, 2000-10000: ±1%	
	Accuracy@10VAC	1-199: ±0.1%, 200-999: ±0.2%, 1000-2000: ±0.5%	
	Accuracy@4VAC	1-199: ±0.2%, 200-800: ±0.5%	
	Accuracy@1VAC	1-99: ±0.5%, 100-200: ±1%	
Excitation Current	Range	1uA – 1A	
	Typical Accuracy	± 2% ± 1 dgt	
	Resolution	0–9,999mA	1μA
		10–99,99 mA	10μA
100–999,9mA		100μA	
Phase Angle	Range	360°	
	Accuracy	±0.05°	
Test Voltage	Adjustable 1V - 250V		

Environment

Operating Temperature	-20 to 55 °C (-4 to 131 °F)
Storage Temperature	-30 to 70 °C (-22 to 158 °F)
Humidity	20% - 95% RH , Non-Condensing

Miscellaneous

Storage Capacity For Over 350 Transformer Tests
Internal Thermal Printer
USB, WIFI Connectivity
User-friendly Mobile App.
PC Software

Accessories

H Winding Test Lead Set (4 x 8m with Clamps) 	X Winding Test Lead Set (4 x 8m with Clamps) 
Tap Changer Control Cable (5m) 	Earthing Cable (4m) 
Power&USB Cables 	Case Cover&Cable Bag 

One Year Warranty, Five Years After Sales Services