

TTR10

Transformer Turns Ratio Tester

تست نسبت تبدیل ترانس



Three-phase test set for measuring Turns ratio, phase shift and excitation current of power, instrument and distribution transformers

Features

- Ratio range 45000 : 1
- Adjustable excitation test voltages: 1V to 250V
- Automatic vector group detection
- Built-in tap changer control unit
- Storage capacity to handle over 350 test files
- PC interface via USB
- Light weight

Applications

- Transformer manufacturers
- The companies that maintain and repair electrical power plant, substation, refineries and factories
- Electrical engineering companies and electrical power labs



TAPCO®
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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
CPU	32bit ARM based MCU @ 100MHz
Display	4*20 Character LCD with back light
Main Voltage	200 - 240VAC, 50Hz
Max Power Consumption @ 150V 1A	50 W
Dimensions (L x W x H)	Basic Unit 460 x 330 x 150 mm
	Case Cover 480 x 350 x 170 mm
Weight (Basic Unit)	9 kg
Computer Interface	USB
Internal Storage	Up to 350 test results
Keyboard	Rugged Membrane Keyboard (10 Alpha-Numeric Keys, 6 Function Keys)

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% + 1Digit	
	Resolution	0-9,999mA 10-99,99 mA 100-999,9mA	1µA 10µA 100µA
Phase angle	Range	360°	
	Accuracy	±0.05°	

Printer

Form of Printout	Result (Name, Location, Date, Time, Serial Number, Manufacture, Turn Ratio, Vector Group, Applied Voltage, Excitation Current, Deviation, Continuity)
Printer Type	Thermal Printer With Fixed Print Head
Resolution (Graphic)	Resolution 8 Dots/mm (203 dpi)
Paper	Width 58 ± 0.5 mm (2.28"±0.2")

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

Accessories

H winding test lead set, 4 x 10 m with clamps
X winding test lead set, 4 x 10 m with clamps
Tap Changer Control cable set 5 m
Ground cable
USB cable
Case Cover and Cable bag
User Manual + Quick Reference + Calibration Report
Case Carrier (Heavy Duty Transport Case) (Optional)

One Year Warranty, Five Years After Sales Services