

UDEY

**POWER TRANSFORMER RATIO METER
MODEL: TRM-1**



Introduction:

TRM-1 is a specially designed fully automatic micro-controlled transformer ratio group polarity tester to test transformers in power system. It also is suitable for Scott transformers, reverse Scott transformers, Balance transformers, Z-winding transformers, rectification transformers etc.

Features:

- Produces the 3-ph or 2-ph standard power with stable voltage and phase.
- Directly measures the ratio and the angular difference of high-low voltage sides.
- High speed. A group of test data in a few seconds.
- Over current protection.
- Power frequency and voltage fluctuations have no effect.
- True 3-phase synchronous testing
- RS-232 interface

UDEYRAJ ELECTRICALS PRIVATE LIMITED
[international source for power utility T & M equipments]

212-A H.S.Industrial Estate,
85/86 MV Road, Mumbai 400 059
www.udeyraj.com e-mail:udeyraj@vsnl.com
Ph: 022 66916181 Fax: 022 66942787

Description:

TRM-1 is designed to measure ratio, error, group and phase angle, polarity (for single phase transformer), phase group (for 3 phase transformer) automatically. With the 3-phase AC source built-in, the measurement is made easily without considering the transformer connection mode. Therefore the special type of transformers, which cannot be measured in traditional ways such as SCOTT and Z-winding transformers, can be measured rapidly and accurately. The tester has a micro-controller, panel mouse, large 320 x 240 mm LCD display and built-in thermal printer.

Operation process:

- a) Input standard ratio. Select single/three phase, Scott/ reverse Scott
- b) Turn on testing power.
- c) Automatic testing.
- d) Display of ratio, error, polarity, group or phase and wave form.
- e) Print results.

TECHNICAL SPECIFICATIONS:

Input Supply	: 220 ± 22Volts AC, 50 ± 1Hz, single phase.
Ration range	: 1: 1000
Test voltage	: 100V(single phase) and 80V(three phase)
Accuracy	: Ratio > 500: 0.2%. / Ratio < 500: 0.1%.
Phase range	: 0-360°.
Phase resolution	: 0.001°.
Phases group	: 1~12.
Protection	: Over current protection.
Display	: 320 x 240 mm LCD with contrast adjustment. Ratio, error, polarity, group or phase and wave form
Printer	: Built-in thermal printer.
Interface	: RS-232 interface.
Dimensions	: 40 x 338 x 22.5 cm. approx.
Weight	: 17 kg. approx.
Construction	: In single sheet metal cabinet with lifting handle.
Accessories	: Input mains supply cord. Output connection leads. Instruction Manual.
Tests	: Routine tests including HV withstand tests, IR test, functional test and calibration.

Cat.# TRM-1-2009

Specs subject to change without notice