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## Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

## Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

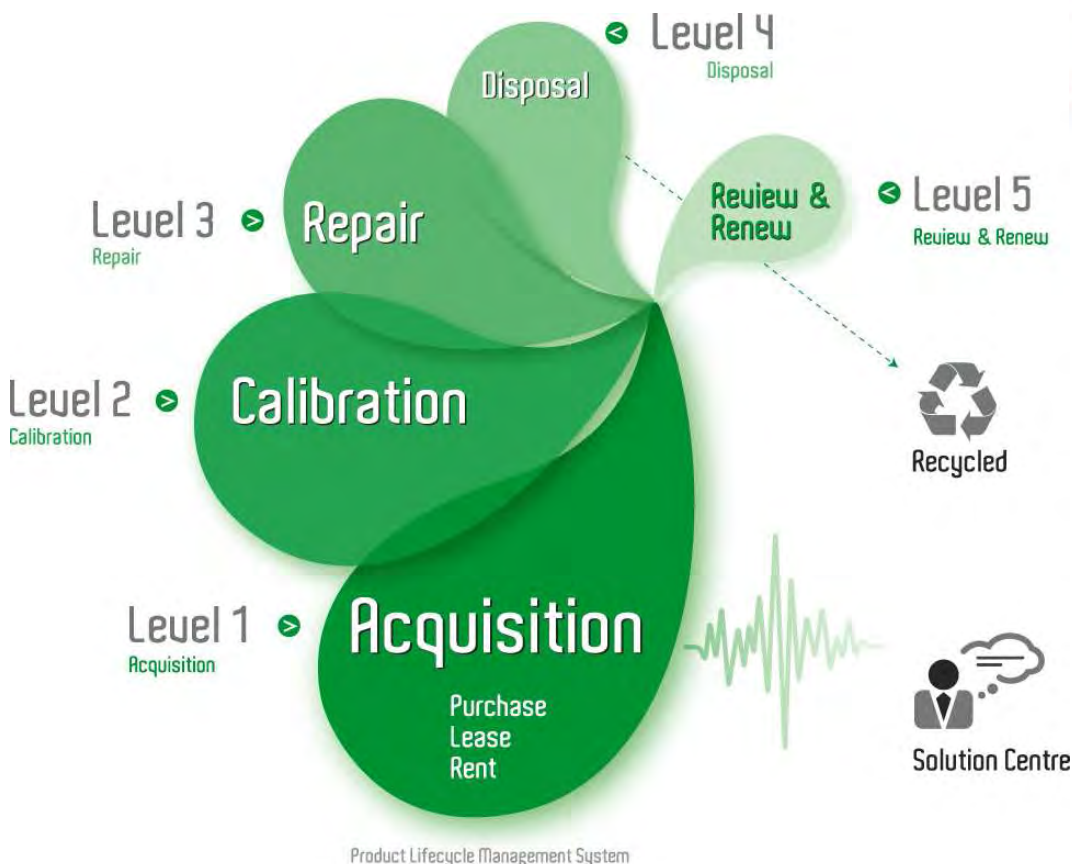
TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the "Click-to-Call" logo below, you can call us for FREE!

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**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

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**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 $\pm$ 22Volts AC, 50 $\pm$ 1Hz, single phase.
Ratio 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