



SIVA INSTRUMENTS

Transformer Winding Resistance Meter

Model :TWRM-10As



Introduction

Transformer Winding Resistance Meter is designed to measure the winding resistance of transformers, Inductors, generators and motor windings, Tap Changers Etc.

It is specially designed for Highly Inductive objects like 400KV/220KV. Special care is taken for measuring 3 phase transformers by using band switch matrix, to avoid climbing on transformers for safe & measurements. This is only indigenous TWRM which gives very fast readings for 3Phase Star-Delta any combination Transformers. The built in open circuit DC Supply ensures that core of the transformer is saturated for fast measurements to be taken. Care is taken to absorb the Back emf of such transformers. For user safety, Indication for discharges is provided on front panel, if the current through winding under measurement is disturbed / discontinued.

Instrument has built in 10A regulated and highly stable current source with current selection of 10Amp, 1Amp, 0.1Amp & 0.01Amp.

Instrument uses ratio-metric circuit where the resistance of specimen is compared with known internal standard and 4 ½ digit LED/LCD display is provided for resistance measurement in milliohms and in ohms.

Features

- Easy & Fast switching for 3 phase to avoid changing Primary-Secondary, Band switch is provided on front panel.
- Regulated and highly stable 10 Amp, 1Amp, 0.1Amp & 0.01Amp current source.
- 4½ digit LED/LCD display dual channel.
- Simultaneous measurements of voltage & current.
- True four terminal measurements.
- Resolution of 0.1 micro ohm
- Protection against inductive kickback and discharge.
- Visual indication for discharge.
- Line voltage interference suppression, making instrument most suitable for field applications.
- Lightweight with carrying case & with 10 meter leads.
- Optional Inbuilt Printer, RS232 port, Data acquisition software.
- Useful for single or three phase delta or star configuration.

Specifications

POWER SUPPLY	230V AC $\pm 10\%$, 50Hz
TEST CURRENT	0.01A, 0.1A, 1.0A, 10A continuous on all ranges.
RANGES	200 u ohms to 200 ohms in 6 Ranges
INDICATION	4 ½ Digital panel meter LED/ LCD Dual Channel
RESOLUTION	0.1 micro ohm on 2 milli ohm range
ACCURACY	$\pm 0.5\%$ reading ± 5 counts at 10A, 1A & 0.1A ranges.
CONTROLS	Power On Switch. Current Range selection switch. Matrix Switching for winding selection.
DIMENSIONS	L=440x B=350x H= 150mm ± 10 mm
WEIGHT	Approx. 20Kg

To keep pace with the latest technology Sivananda Electronics reserves the right to update it's system. Hence, information in the brochure is likely to change without notice.



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