

SIVA INSTRUMENTS



ISO 9001 : 2008

Transformer Winding Resistance Meter Model :TWRM-10A

Introduction

Transformer Winding Resistance Meter is designed to measure the winding resistance of transformers, Inductors, generators and motor windings, Tap Changers, Bus Bar contacts, Power Cables etc.

It is specially designed for Highly Inductive objects like 765kV/400kV/220kV. This is only indigenous TWRM which gives very fast readings for 3Phase Star-Delta any combination Transformers. The built in open circuit Voltage of 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 discharge 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 10A, 5A, 1A, 0.1A 100mA and 10mA.

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



Features

- Regulated and highly stable 50V.
- Current Capacity 10Amp.
- 4 Line LCD display.
- Simultaneous measurements of voltage & current.
- Two channels to measure two windings at a time.
- True four terminal measurement.
- Resolution of 0.1 micro ohm
- Protection against inductive kickback and discharge.
- Facility to demagnetize the transformer core after test.
- Built in auto Lead compensation.
- Visual indication for discharge.
- Line voltage interference suppression , making instrument most suitable for field applications.
- Light weight with carrying case & with 15 meter leads.
- Automatic Discharge.
- Thermally Protected Power Supply.
- Displays Current flow % of set current

Specification

POWER SUPPLY	: 230V AC \pm 10%, 50Hz, single phase.	CABLES	: Test cables 15mtr , Ground Cable, Power Chord & Cable Bag.
TEST CURRENT	: 10A, 5A, 1A, 0.1A, 10mA.	SAFETY SPECS	: Complied IEC61010
RESISTANCE RANGE	: 2m Ω to 2000 Ω (Auto Ranging)	EMI/EMC SPECS	: Complied IEC61326
DISPLAY	: Large clear backlit 4 line 20CH LCD.	WEIGHT	: Less than 10Kg (Without Leads)
RESOLUTION	: 0.0001m Ω on 2m Ω	DIMENSIONS	: 430mm x 340mm x 175mm
ACCURACY	: \pm 0.5% \pm 5digits	OPERATING TEMP	: -10°C to 50°C
DC POWER SUPPLY	: 50VDC, 10Amp	OPERATING HUMIDITY	: 80%RH
KEYPAD	: 12 Keys Soft-touch.		



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