

SIVA INSTRUMENTS



ISO 9001 : 2008

Transformer Winding Resistance Meter Model: TWRM-10A μ P



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 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, 5A, 1Amp, 100mA & 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.
- Auto Demagnetize the transformer core after test.
- 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.
- Internal Storage 100 test results
- Built in Thermal Printer
- RS 232 port to download data and remote control.
- Heat run test can be conducted.
- Temperature compensated value for Aluminum and copper.

Specification

POWER SUPPLY	: 230V AC \pm 10%, 50Hz, single phase.	KEYPAD CABLES	: 12 Keys Soft-touch. Test cables 15mtr , Ground Cable, Power Cord & Cable Bag.
TEST CURRENT	: 10A, 5A, 1A, 100mA, 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 Approx	: 10Kg (Without Leads)
RESOLUTION	: 0.1 $\mu\Omega$ at 2milliohm.	OPERATING TEMP	: -10 $^{\circ}$ C to 50 $^{\circ}$ C
ACCURACY	: \pm 0.25% of reading \pm 5digits	OPERATING HUMIDITY	: 90%RH (Non Condensing)
DC POWER SUPPLY	: 50VDC, 10Amp		



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