



SIVA INSTRUMENTS

Transformer Winding Resistance Meter

Model :TWRM-25A



An ISO 9001:2008 COMPANY



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 765KV.. 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 25A regulated and highly stable current source with current selection of 25Amp,10Amp,5Amp,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 LCD display is provided for resistance measurement in micro-ohm, milliohms and in ohms.

Features

- Regulated and highly stable 50Volt 25Amp, 10 Amp, 5Amp, 1Amp,0.1Amp & 0.01Amp current source.
- 4½ digit LCD display , 19999 counts.
- Simultaneous measurements of voltage & current.
- True four terminal measurement.
- Resolution of 0.1 micro ohm
- Protection against inductive kickback and discharge.
- Visual indication for discharge.
- Resistance Range Auto ranging
- Line voltage interference suppression , making instrument most suitable for field applications..
- Light weight with carrying case & with 20 meter leads.
- Automatic Discharge.
- Thermally Protected Power Supply.

Specifications

POWER SUPPLY 230V AC \pm 10%, 50Hz \pm 5%, single phase.

TEST CURRENT 25 A, 10A, 5A, 1A, 100mA, 10mA.

RANGES 0.1m Ω to 1.9999k Ω auto ranging

INDICATION 4 LINE LCD (19999 counts)

RESOLUTION 0.1 $\mu\Omega$ at 1.9999milliohm range

ACCURACY \pm 0.5% of FSD

DC POWER SUPPLY 50VDC, 25Amp

CHANNELS 2 Channels.

KEYPAD 12 Keys Soft-touch.

CABLES Test cables , Ground Cable, Power Chord & Cable Bag.

SAFETY SPECS Complied IEC61010

EM/EMC SPECS Complied IEC61326

DIMENSIONS 520 x 420 x 230 mm

WEIGHT < 20Kg. (without Leads)

OPERATING TEMP 0 TO +50 $^{\circ}$ C

RELATIVE HUMIDITY Max. 90% non-condensing.

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