

SIVA INSTRUMENTS



ISO 9001 : 2008

Transformer Winding Resistance Meter Model :TWRM-25A uP



Introduction

Transformer Winding Resistance Meter is designed to measure the winding resistance of transformers, Inductors, Generators and Motors, 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 or discontinued.

Instrument has built in 25A regulated and highly stable current source with current selection of 25A, 10A, 5A, 1A, 0.1A & 0.01A.

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

Tap changers time and Graph, OLTC Time and current Deviation in %.

Heat Run Graph Test Time Vs Resistance

Features

- Regulated and highly stable 50Volt 25Amp, 10A, 5A, 1A, 0.1A & 0.01A 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.
- RS232 port, Data acquisition software Windows Based and Remote operation.
- Automatic Discharge.
- Thermally Protected Power Supply.
- Temp. correction & Compensation for Cu & Al.

Specification

POWER SUPPLY	: 230V AC \pm 10%, 50Hz \pm 5%, single phase.	SOFTWARE	: Windows based software for data downloading, Report Generation, Temperature Compensation, Heat Run Test
TEST CURRENT	: 25A, 10A, 5A, 1A, 0.1A & 0.01A	KEYPAD	: 12 Keys Soft-touch.
RANGES	: 0.1m Ω to 2000 Ω auto ranging	CABLES	: Test cables (20mtrs) with suitable clamps , Ground Cable, Power Chord & Cable Bag.
INDICATION	: 4 ½ Digital panel meter LCD (19999 counts)	SAFETY SPECS	: Complied IEC61010
RESOLUTION	: 0.1 $\mu\Omega$ at 1.9999 milliohm range	EMI/EMC SPECS	: Complied IEC61326
ACCURACY	: \pm 0.1% \pm 2Digits	WEIGHT	: < 15Kg. (without Leads)
TEST VOLTAGE	: 50VDC	OPERATING TEMP	: 0°c to +50°c
CHANNELS	: 2 Channels.	RELATIVE HUMIDITY	: Max. 90% non-condensing
PORTS	: RS232 Port		



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