

# 'SIVA' Instruments

## Transformer Winding Resistance Meter **Model : TWRM-25A uP**



An ISO 9001:2008 Company

### Specifications:

Transformer Winding Resistance Meter is designed to measure the winding resistance of transformers, Inductors, Generators and Motors, Windings, Tap Chargers, Bus Bar contacts, Power cables etc.

It is specially designed for Highly Inductive objects like 765kV. This is only indigenous TWRM, which gives very fast readings for 3 Phase Star-Delta any combination Transformers. The built in open circuit Voltage of DC Supply ensures that core of the transformer is saturated for fast measurement 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.

### Specifications:

- POWER SUPPLY : 230V AC  $\pm$  10%, 50Hz
- $\pm$  5%, single phase.
- TEST CURRENT : 25A, 10A, 5A, 1A, 0.1A & 0.01A
- RANGES : 0.1m $\Omega$  to 2000  $\Omega$  auto ranging
- INDICATION : 4 ½ Digital panel meter
- LCD ( 19999 counts)
- RESOLUTION : 0.1 $\mu\Omega$  at 1.9999 milli  $\Omega$  range
- ACCURACY :  $\pm$  0.1%  $\pm$  2Digits
- TEST VOLTAGE : 50VDC
- CHANNELS : 2 Channels(3 CH Optional)
- PORTS : RS232 Port/USB (Optional)
- SOFTWARE : Windows based software for data downloading, Report Generation, Temperature Compensation, Heat Run Test.
- KEYPAD : 12 Keys Soft-touch.
- CABLES : Test cables (15 mtrs) with suitable clamps, Ground Cable, Power Chord & Cable Bag.
- SAFETY SPECS : Complied IEC61010
- EMI/EMC SPECS : Complied IEC61326
- WEIGHT : < 15Kg. ( without Leads)
- OPERATING TEMP : 0 $^{\circ}$ c to +55 $^{\circ}$ C
- RELATIVE HUMIDITY : Max. 90% non-condensing



### 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 15 meter leads.
- Rs232 port, Data acquisition software Windows Based & Remote Operation.
- Automatic Discharge.
- Thermally Protected Power Supply.
- Temp. correction & Compensation for Cu & Al

### USP :

- 4.3" Color TFT display (screen (Optional).
- Bluetooth Connectivity. (Optional)
- USB interface. (Optional)
- OLTC Test with Graph. (Optional)
- Heat Run Test. (Optional)



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