

SIVA INSTRUMENTS



ISO 9001 : 2008

Microprocessor based Automatic Ratio Meter is the first automatic ratio meter in the country giving digital display of ratio directly. The instrument without any need of balancing precisely & accurately measures the voltage transformation ratio of single phase/3-phase delta or star, without neutral, Zig zag connected transformers, CTs & PTs, Power Transformers.

Test Voltage

The Instrument provides isolated test AC voltages of 8V,40V,80V, which enable the testing of both power transformers & Cts.

Display

LCD displays the ratio i.e. ratio of high voltage winding to low voltage winding at low flux in the core. Ratio is displayed in 0.8 – 12000 ** by auto ranging.

Principle of Operation

This micro-processor based Instrument uses ratio-metric circuit in which the ratio of test specimen is compared with known internal standard.

Protection

Instrument is protected against any wrong connection across the transformer. Fast acting VBO trips in case of stepping up of test voltage.

Keypad & LCD Display

This is provided for displaying keyboard selected parameter, error/warning messages like incorrect connection, accidental step up misconnection, for user friendly functioning etc.

We also offer

Automatic C & Tan Delta Bridges, Transformer Winding Resistance Meters, Oil Insulation Test Kits, Oil Tan delta, Volume Resistivity & Dielectric constant Meter, Insulation Resistance Tester, Contact Resistance Meter.

Automatic Transformer Ratio Meter Model : ATRM-1uP



Features

- Fully auto operation, No balancing is required. Suitable for 765 kV yards.
- Measures and displays turn ratio Phase angle, Vector group, Excitation current, Polarity & Pass / Fail for Ratio reading with Calculated ratio.
- LCD Display, automatic Vector Group Detection.
- RS232 Port to download data and remote operation through PC.
- Inbuilt Memory for 100 test results.
- Resolution of 0.001 in the range 10
- Can be used to measure 3,1 phase delta, star connected transformer.
- Can be used for Without neutral and Zigzag Transformer.
- Polarity Detection.
- Fully protected against any wrong connections.
- Built in Thermal printer for on-site printouts.
- Temperature Range -10°C to 55°C
- Storage Temp Range -20°C to 70°C
- Humidity 5% to 95% RH, non condensing.

Specification

Power Supply : 230V AC \pm 10%, 50Hz \pm 5%.
Voltage : 8V, 40V, 80V AC Selectable **
Ratio Range : 0.8 to 12000**
Ratio Accuracy: \pm 0.1% \pm 2digits
Indication : LCD display of ratio
Phase Angle : \pm 90°
Resolution : 0.01°
Accuracy : \pm 0.5°
Ex. Current : 500mA @ 8V
Accuracy : \pm 1mA
Resolution : 0.1mA
Storage Memory: Built in upto 100 test results.
Port : RS232C PORT
Software : Windows Based

Three Phase Test Cables: 15 meter long
Power Supply Cord: 10 meter
Ground Cable : 10 meter
Instruction Manual : English 2 No.
Calibration Certificate: Traceable to STQC Lab.
Safety Specifications: IEC 61010 COMPLIED.
EMI/EMC Specifications: IEC/EN 61326 COMPLIED.
Vibration Test : IEC60068-2-6 COMPLIED
Shock Test : IEC60068-2-27 COMPLIED
Bump Test : IEC60068-2-29 COMPLIED
Damp Heat Test : IEC60068-2-78 COMPLIED
Weight : < 10Kg

** Can be modified as per customer requirement



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