



SIVA INSTRUMENTS

Automatic Transformer Ratio Meter

Model : ATRM-1uP



Introduction

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 connected transformers, CTs & PTs, Power Transformers.

Test Voltage : The Instrument provides 3 isolated test voltages of 48V & 4.8V which enable the testing of both power transformers & CTs.

Display : 4 ½ digit 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 three ranges i.e. 1-10, 10-100, 100-1000, 1000-10000 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, low battery for user friendly functioning etc.

Features

- Fully auto operation, No balancing is required .
- Measures and displays transformer ratio, excitation current, Phase Angle polarity(Primary Secondary, Continuity or any short circuit)
- LCD display.
- 4½ digit LED/LCD display of ratio.
- True 4 terminal measurement.
- Resolution of 0.001 in the range 10.
- Can be used to measure 3,1 phase delta, star connected transformer.
- Fully protected against any wrong connections.
- Built in printer (24 column) for on-site printouts.

Specifications

POWER SUPPLY 240V AC, 50Hz, single phase.
110 VAC 60Hz on request.

TEST VOLTAGE 48 V & 4.8 V

AUTORANGING RANGES

Ratio Range	Display	Resolution	Accuracy
10	1-9.999	0.001	±0.1% of FSd ±3 digit for ratio reading
100	10-99.99	0.01	
1000	100-999.9	0.1	
10000	1000-10000	1	

INDICATION 4 ½ Digit LED display of ratio.
LCD display controlled by processor for interfacing with keyboard.

ACCURACY ±0.1% of FSd ±3 digit for ratio reading at 48V test voltage.

PHASE ANGLE ± 90 °C

WEIGHT Approx. 17Kg

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also offers C & Tan delta Bridge with High Voltage Power Supply upto 12KV. , SF6 gas filled Standard Capacitors 100pf/1000 pf upto 20 KV., Oscillographic Null Detectors, High Voltage Insulation Testers upto 5KV (Solid State), Precision Current Transformers for range extension of C & Tan D Bridge etc. For detailed information & product catalogue please write to us.

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