



# SIVA INSTRUMENTS

## Automatic Transformer Ratio Meter Model :ATRM-1



### Introduction

Sivananda 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 by auto ranging.

**Principle of operation:** This 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.

### Features

- Fully auto operation, No balancing is required .
- Measures and displays transformer ratio, (Primary & Secondary,)
- LED display.
- 4½ digit LED 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.

## 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	

**INDICATION** 4 ½ Digit LED display of ratio.

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

**WEIGHT** Approx. 10Kg

**SIVANANDA ELECTRONICS** 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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