Sivananda Electronics

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AUTOMATIC TRANSFORMER RATIO METER 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, without neutral , Zig zag connected transformers, CTs & PTs, Power Transformers.

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.
- 4 line 20 character backlit LCD .
- Automatic Vector Group Detection.
- RS232 Port to down load data to PC & Remote operation.
- 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 0 to 55°C
- Humidity 5% to 90% RH, non condensing.
- Automatic Vector Group Detection.RS232 Port to down load data to PC & Remote Operation.
- Can be used to measure 3,1 phase delta,
- Fully protected against any wrong connections.

Specification

- POWER SUPPLY : 230V AC ± 10%, 50Hz ± 5%.
- VOLTAGE : 8V, 40V, 80V AC Selectable
- RATIO RANGE : 0.8 to 12000 (15K Optional)
- RATIO ACCURACY: ± 0.1% ± 2digits
- INDICATION : 5 Digit LCD display of ratio.
- LCD DISPLAY : 4line x 20 Characters alphanumeric controlled by processor for interfacing with keyboard.
- PHASE ANGLE : ± 90 degrees Resolution:0.01°
- RESOLUTION : 0.01
- ACCURACY : ± 0.1 degree ± 2digits
- EXCITATION CURRENT : 1mA – 0.1A at 8V
- ACCURACY : ± 1mA
- RESOLUTION : 0.1mA
- STORAGE : Built in upto 100 test results.
- PORT : RS232 PORT
- SOFTWARE : Windows Based.
- PROTECTION : Short circuit, Over load, Transient Surge, Induction voltage.
- OPERATING TEMP.: 0° C TO 55° C
- THREE PHASE TEST CABLES: 15 meter long.
- POWER SUPPLY CORD : 10 meter.
- GROUND CABLE :10 meter.
- INSTRUCTION MANUAL: English 1No.
- 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 : Approx. 12Kg

Warranty

Sivananda Electronics warranties its products against defects in material and workmanship for a period of one year from the date of installation or 15 months from the date of dispatch, whichever is earlier. This warranty excludes normal wear on finishes or damage that occurs due to abuse or misuse.

Our Other Products

❖ **Instruments:** 200+ types of test equipment's for Power, Wire & Cable, Capacitor, Oil & Petroleum industries are developed by in-house R&D Lab. Surge Testers, Automatic C&Tan Delta Bridges, Transformer Windings Resistance Meters, Oil Insulation Test Kits, Oil Tan Delta, Volume Resistivity & Dielectric constant Meter, Insulation Resistance Tester, Contact Resistance Meter etc.

❖ **Security :** Turnstiles, Tripods, Barriers, Metal Detectors, Bollards etc.

Disclaimer : To Keep pace with the technology Sivananda Electronics reserves it's right to update the system without prior consent.

About Us

- 50 years (in 2020) of service to India.
- 1st to develop metal detectors for security in India. Made in India.
- 1st to develop Turnstiles in India. Made in India.
- Eclina Awards (1995), Elecrama Awards (1996), NIMA Awards (1999)
- Leading manufacturers of Security Systems and Test & Measuring Instruments in India.
- Largest supplier of Turnstiles in India in the last 25 years
- 150 different types of Electronic Test & Measuring instruments are indigenously developed for many industries.
- Exporting to 70+ countries.