

Transformer Ratio Meter (3 Phase)

TRM1 with TRM-EM3



TECHNICAL SPECIFICATIONS

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| Application | Automatic Transformer Turns Ratio meter for testing 1 ϕ and 3 ϕ transformers according to IS/IEC standards for: <ul style="list-style-type: none">• Power and distribution transformers• Instrument transformers• Special transformers; like phase shifting, rectifier etc. |
| Technical Specification | <ul style="list-style-type: none">• Single phase fully Automatic Transformer Turns Ratio meter with extension module for testing 3 phase transformers• Excitation Voltage: 240V and 100V (User selectable)• Accuracy: 0.1% \pm 2 digits• Turn Ratio Measurement up to 2400• Measurement of phase displacement between two windings from 0$^{\circ}$ to 360$^{\circ}$ with resolution of 0.1$^{\circ}$• Measurement of Excitation current from 1mA to 1000mA• RS232 Communication Port• Internal non-volatile memory for saving 200 test results.• Built-in Real Time clock |
| Features | <ul style="list-style-type: none">• Self balancing automated micro-processor based for fast measurement• Single phase fully Automatic Transformer Turns Ratio meter for testing 1ϕ transformers, instrument transformers etc.• Extension module for testing 3ϕ transformers with built-in hermetically sealed relays for selection of 3ϕ transformer configurations.• Better transformer excitation due to high test voltage up to 240V• It shall stabilize the results very fast• Display: Graphic LCD display with backlit of size 128x64 pixels. The display shall be sun-light visible.• Feather touch key pad shall be provided• Tap changer Ratio module to measure & store the tap ratio up to 35 taps. It shall, also, measure & store the Phase displacement between 2 windings and Excitation current on each tap.• Built-in Open circuit / short circuit / over current / over voltage fault detection• Indication: LED indication for "Voltage ON"• Built-in fuse protection at input power supply and output voltage for HV connections• The instrument shall be supplied with Window based PC downloading software facilitating Download, Save, Print & Recalling of test data. |
| Input Power supply | 1-Phase, 230V \pm 10%, 50 Hz |
| Casing | Unit shall be housed in Rugged Plastic carrying case |
| Connection Lead | Potential lead-set up to 10 meters length with proper clamp arrangements shall be provided |

Standard accessories:

1. Test Leads: As mentioned above
2. Power Cord & Earthing lead: Having 3 meter in length
3. Operation Manual
4. Calibration Certificate



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