Applications

Transformer Manufacturer  CT Manufacturer  PT Manufacturer  Vector Group Model

AUTOMATIC TRANSFORMER TURNS RATIO METER - VTRM
(ANSI / IEEE C57.12.90 Compliance)

KEY FEATURES

- Automatic Measurement of Transformer Turns Ratio
- Excitation Current, HV & LV Voltage, Polarity & %Deviation
- Vector Group selection facility (In Selected Model)
- Basic Accuracy ±0.1% Accurate measurement
- Turns Ratio 1:200 / 1:2000
- 20 x 4 LCD to Display all Parameters in Single Screen
- 3-Phase Connections enables simple and fast testing
- Hook Up Error Indication for Wrong HV LV Connection (Optional) (in Star-Star Connection)
- Hold Facility To Freeze Result with LED indication
- Test Voltages Applied Through ON/OFF Switch
- Reverse Polarity Indication by LED & LCD
- Over Current Protection for shorten Winding
- 200 Test Data Storage Inbuilt (500 Optional)
- RS-232 & USB (Optional) Interface with Software
- Portable in Size (Table Top & Panel Mount)
- LED Indication for Fuse Blown

APPLICATIONS

- Distribution Transformers, Power Transformers, CT PT & Other Transformer manufacturers & Repairers etc.
- Electricity Distribution & Transmission Companies to enhance their in house testing at micro Level.
- Electrical Test & Calibration Laboratories & Third Party Inspection Agencies.
- Engineering Colleges to aware students about Turn Ratio & it’s measuring principles.
- Research Institutes for research work on Transformer Fundamentals.
INTRODUCTION

VEER make Automatic Transformer Turns Ratio Meter - VTRM measures no-load Turns Ratio of Transformer. It means Ratio of High Voltage Winding to Low Voltage Winding of Transformer. It is capable to test Y-Y, D-Y, D-D & Y-D configuration. You can read Turns Ratio directly from front LCD display. It also measures and display % Deviation & Excitation Current. VTRM has inbuilt Data Storage Memory up to 200 Test Results. It can transfer all test results to Computer using dedicated Software & computer interface.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>VTRM-1</th>
<th>VTRM-3</th>
<th>VTRM-3 (Vector Group)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>5°C To 50°C</td>
<td>5°C To 50°C</td>
<td>5°C To 50°C</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>20% to 80% RH (no condensation)</td>
<td>20% to 80% RH (no condensation)</td>
<td>20% to 80% RH (no condensation)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>0°C To 55°C</td>
<td>0°C To 55°C</td>
<td>0°C To 55°C</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>30 VA max</td>
<td>30 VA max</td>
<td>30 VA max</td>
</tr>
<tr>
<td>Phase</td>
<td>1 Phase</td>
<td>Y-Y, D-Y</td>
<td>Y-Y, D-Y, Y-D, D-D</td>
</tr>
<tr>
<td>Connection Type</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ratio Range</td>
<td>1.0 - 200.0/1.0 - 2000.0</td>
<td>1.0 - 200.0/1.0 - 2000.0</td>
<td>1.0 - 2000.0</td>
</tr>
<tr>
<td>Resolution</td>
<td>5 Digits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parameters</td>
<td>Turns Ratio, Excitation current, HV &amp; LV Voltages, % Deviation &amp; Reverse Polarity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Excitation Voltage</td>
<td>55 Volt @50 Hz (Depends on Auxiliary Supply) (Other Range Available on Request)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Excitation Current Range</td>
<td>200 mA, Resolution 0.1 mA (Other Range Available on Request)</td>
<td></td>
<td></td>
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<tr>
<td>Power Supply</td>
<td>AC 230V ± 10% @ 50 Hz Or AC 110V ± 10% @ 60 Hz (On Request)</td>
<td></td>
<td></td>
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<tr>
<td>Accuracy</td>
<td>± 0.1% rdg ± 0.1% rng (For Voltage &amp; Ratio)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Size of Instrument (WxOxH) in mm</td>
<td>376 mm x 320mm x 145mm (Over all), 332mm x 133mm (Panel Cutout Size)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight of Instrument</td>
<td>5.00 kg Approx.</td>
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<td></td>
</tr>
<tr>
<td>Warranty</td>
<td>1 Year against manufacturing defects &amp; Extended optional. No Warranty for accessories.</td>
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</tr>
</tbody>
</table>

NOTE: 1. Above all Specifications are subject to change without prior notice Please confirm at the time of placing an order.
       2. Size and weight may be change without prior notice. For more details please contact Us.

ACCESSORIES

HV & LV Cable  
Power Cable RS-232 & USB Cable  
Accessories Bag  
Software CD  
Document File

FEW OTHER PRODUCTS AT A GLANCE

3-Phase Power Analyzer VPA-60080  
Digital Iron Loss Tester VDW-2065  
Digital Epstein Tester VET-1608A  
Transformer / Motor Pump Testing Panel  
Turns Ratio Meter VTRM6

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Rev. 02
190313