

XTRM-3

Transformer Turns Ratio Meter



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Motwane has introduced Transformer Turns Ratio Meter XTRM-3, a new generation of fully automatic ratio testers. XTRM-3 measures the transformation ratio of **single** phase and **three** phase transformers using modern electronic techniques. This replaces the Ratio testers using 'current balancing bridge' circuits, requiring manual 'null' balancing. XTRM-3 incorporates breakthrough technology and design that gives accurate and reliable results repeatedly. It is micro controller operated user friendly and reliable tester. XTRM-3 incorporates a large LCD screen for display of menu and results. The entire test is done automatically and quickly. Operator enters the test parameters and XTRM-3 takes over, applies the test voltage, balances the bridge, takes the readings, and displays the results on the LCD screen. The results can be printed on built-in printer after the test is over. The windows based software is provided for easy operations of the Turn Ratio Meter via USB communication port. The automatic detection of transformer vector group is a key feature of the XTRM-3. LV and HV windings are automatically isolated after the measurement is over. The XTRM-3 is a single unit design, encased in a hard industrial cabinet, lightweight (only 10 kg), achieving portability.

Features

- Fully automatic, no manual balancing required
- Testing single phase and three phase transformers
- Automatic measurement of transformer vector group
- Calculation of ratio error
- Rugged leads with distinct color code
- Isolates test voltage automatically after test
- Facility to save 500 Test results
- In- built printer
- CE and EMC compatible
- IP 54 compatible

Applications

- Turn Ratio testing of Single phase/ Three phase Auto Transformers, Power Transformers and Distribution Transformers
- Turn Ratio testing of Current Transformers
- Verification & Checking of on load Tap Changers.



Technical Specification

Power supply	: 230V±10%, AC 50 Hz.
Measurement ratio	: 1 : 10000
Display	: LCD
Accuracy	: 0.5% (for Measurement ratio up to 10000)
Test voltage	: 200V AC
Excitation Current	: Upto 0.5A
Resolution	: 1mA
Printer	: Built in Thermal printer
PC interface	: USB
Report Storage	: 500 reports

Environmental Specifications

Operating Temperature	: 0 °C to 50 °C
Storage Temperature	: -10 °C to 60 °C
Relative Humidity	: ≤ 85%RH

Physical Specifications

Dimensions	: 28.4 x 42.5 x 15.5 cm
Weight	: Approx. 10 kg

Safety features

Safety in accordance with EN 61010-1
 EMC in accordance with EN 61326-1
 CE Certified
 Measurement CAT III 600V/ CAT IV 600V
 Ingress Protection IP 54
 CAT II (1000V)/CAT III (600V) Reinforced insulation
 Emergency stop

Software Details

Full Windows compatible software

Software is fully compatible with Microsoft

Type	: Window based Software
Interface	: USB communication port
Features	: Remote Operation : Data down loading : Analysis and report generation



Trending of data can reveal vital information about deterioration, the enables user to take informed decision regarding maintenance.

Accessories

Standard Accessories

Mains Power Cord	: 1 No.
Test Lead Set	: 1 No.(5m long with terminated alligator clips)
Thermal Paper roll	: 1 No.
Instruction Manual	: 1 No.
Calibration Certificate	: 1 No.

Optional Accessories

10m Extension Cable Set	: 1 No.
Software	: 1 No.
USB Cable	: 1 No.



