



Connected to Cloud

XTRM-3

Transformer Turns Ratio Meter

CAT III	IP	CE	USB	Bluetooth
600V	54			

Motwane's Transformer Turns ratio Meter XTRM-3 is a new generation fully automated kit to measure Turns Ratio, Voltage Ratio, Ratio Error, Phase Displacement and Excitation Current in Transformer. It also automatically detects transformer vector group. User selectable test voltage provided to test various ratings of power transformers. XTRM-3 controls from remote position using TAP changer option which allows operator to perform measurement at various Tap position and has quick setup templates which automatically calculates nameplate voltage ratios of transformer to avoid time consuming process by adding details of each TAP ratio. Internal memory for 500 test results provided to save results during testing on site. Emergency safety switch is provided for operator's safety during undesired condition.

XTRM-3 has Bluetooth connectivity module with Motware mobile app for remote access of testing data & storage in the cloud for further analysis & record purpose.

Features

- ✓ Test Voltage : 10V, 40V, 100V
- ✓ Measure Turns Ratio, Voltage Ratio & Ratio Error
- ✓ Measure Phase Deviation & Excitation Current
- ✓ Auto Detection of Transformer Vector Group
- ✓ Quick set up with intuitive guide
- ✓ Inbuilt Printer with Memory for 500 test results
- ✓ Bluetooth enabled for Motware Mobile App
- ✓ Measures Turns Ratio of 3 phases of transformer simultaneously
- ✓ Compliant to Testing Procedure IEEE C57.12, IEEE C57.152 and IEC60076-1

Applications

Transformer Turn Ratio Meter determines the turns ratio and polarity of single and three-phase transformers and also confirm nameplate ratio, polarity, and vectors and useful in identifying trouble in the in transformer windings, such as open circuit and short circuit of turn-to-turn sensitivity.

- Turn Ratio testing of Single phase/ Three phase Auto Transformers, Power Transformers and Distribution Transformers
- Turn Ratio testing of Instrument Transformers

Technical Details

XTRM-3

Technical Specifications

Power Supply 115V/230V AC, 50/60 Hz

Measurement ratio 0.8 : 10000

Ratio Accuracy

10V ±0.15% (0.8 - 1000)

40V ±0.1% (0.8 - 1000)

±0.15% (1001 - 2000)

±0.20% (2001 - 4000)

±0.25% (4001 - 10000)

100V ±0.1% (0.8 - 1000)

±0.15% (1001 - 2000)

±0.20% (2001 - 4000)

±0.25% (4001 - 10000)

Test Voltage 10V AC, 40V AC, 100V AC

Excitation Current Upto 2A

Resolution 0.1mA

Phase Angle ±180°

Phase Angle Resolution 0.01

Accuracy ±0.5° ± 1digit

Display Custom Built 4 LCD Display with Backlit,

size: 166.8 X 109mm

Printer Built in Thermal Printer

PC interface USB

Report Storage 500 reports

Environmental Specifications

Operating Temperature 0°C to 40°C

Storage Temperature -10°C to 60°C

Relative Humidity ≤95%RH at 40°C max (non condensing)

Physical Specifications

Dimensions 188 mm(H) x 401mm(W) x 502mm(L)

Instrument Weight 10 kg (Approx) Instrument

Accessories Weight 21 kg (Approx) Including Accessories

Safety Features

Safety / EMC in accordance with EN 61010-1, EN 61326-1

CE Certified

Ingress Protection : IP67 when lid is closed / CAT (III 600V)

Emergency Stop

Full Windows Compatible Software

Software is fully compatible with Microsoft

Type Window based Software

Interface USB communication port

Features Remote Operation

Data Downloading

Analysis and Report Generation

Accessories

Standard

■ Mains Power Cord - 3 Mtr	: 1 No
■ Main Protected Fuse	: 1 No
■ 15m Measuring Test Lead Set with alligator clips	: 1 No
■ Thermal Paper roll	: 1 No
■ Instruction Manual	: 1 No
■ Calibration Certificate	: 1 No
■ OLTC Probe (10 Meter)	: 1 No
■ Pen Drive	: 1 No
■ USB cable	: 1 No
■ Carrying bag Test Lead	: 1 No

Optional

■ Bluetooth	: 1 No
■ Motware Desktop App	
■ Test Lead For XTRM-3, 20 Mtr	: 1 No

Note : To learn more about the Motware Application, check **Page 59**

ORDERING INFORMATION

Product	Order Code
XTRM-3 with Standard Accessories	109605210