

Electrical Test & Measurement Instruments





XTRM-3

Transformer Turns Ratio Meter

CAT III	IP	CE	USB	Bluetooth
600V	67			

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 MOT-WARE Mobile App

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

Test Voltage	10V, 40V, 100V
Input Power	115V / 230V AC, 50/60 Hz
Turns Ratio Measurement Methods	3 Ph Step up and Step down
	1 Ph Step up and Step down
	Auto Transformer
	CT
Vector Recognition	The XTRM-3 provides the capability for automatic vector group detection for Dd, Dy, Yy, Yd & all configurations with Neutral
Excitation Current Measurement	Resolution: 0.1mA up to 2 A
Transformer Phase Measurement	Range: ± 180 Degrees, Accuracy: ± 0.5 Degrees ± 1 digit
Ratio Accuracy	at 10V : $\pm 0.15\%$ (0.8-1000)
	at 40V & 100V : $\pm 0.1\%$ (0.8-1000)
	$\pm 0.15\%$ (1001-2000)
	$\pm 0.20\%$ (2001-4000)
	$\pm 0.25\%$ (4001-10000)
Ratio Resolution	5 digits
CT Measurement	Auto Selection (10V or 40V)
Test Time for 3 Phase Testing	less than 20 seconds
Data Storage	500 Reports (250 each for Single Phase & Three Phase)
Communication /Control Software	Bluetooth for Data Transfer, LCD, USB Interface for PC Control
Printer Output	Inbuilt Thermal Printer prints all measurement data displayed on LCD Display

Environmental Specifications

Operating Temperature	0°C to to 40°C
Storage	-10°C to 60°C
Relative Humidity	95% RH at 40°C max. (Non Condensing).

Physical Specifications

Weight	9 Kg Approx. (Excluding accessories)
	20 Kg Approx. (Including accessories)
Dimensions	185 mm (H) X 395 mm (W) X 493 mm (L)

Safety

Safety/EMC in accordance with EN61010-1,EN 61326-1	
CE Certified	CAT IV 600V/CAT III 600V
Emergency Stop	
Ingress Protection	IP 67

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 2.0 A/B cable 1.5 meter	: 1 No
■ Carrying bag Test Lead	: 1 No

Optional

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

ORDERING INFORMATION

Product	Order Code
XTRM-3	109605210
with Standard Accessories	

Note: Image & weight are subjected to change.

Contact Details

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