

XWRM-10

Transformer Winding Resistance Meter



Features

- Test current 10A, 1A, 100mA & 10mA
- Resistance Range up to 2000Ω
- Resolution of 0.1μΩ with ± 0.2% accuracy
- Dual channel resistance measurement
- Heat run test facility
- OLTC test facility
- Auto Discharge
- Internal memory for 100 test results
- USB interface with software for report generation
- High open circuit voltage for quick stabilization

XWRM-10 a Motwane make transformer winding resistance meter designed for accurate & fast measurement of highly inductive loads such as Transformers, Reactors & HT motors etc. The selectable smooth DC test current make XWRM-10 useful to test windings with different ratings. The smooth current source with high open circuit voltage saturate the core in quick time in order to get stable readings. The dual channel measurement facility for simultaneous measurement of all two windings to reduce testing time. The heat run test feature available with graphical representation through software to assess performance of transformer during manufacturing or after major breakdown. XWRM-10 can test make-before-break operation of on-load tap-changers. It is provided with back EMF protection against inductive kickbacks to prevent any damage to kit.

The large LCD display with Keypad provided for easy operation. Internal memory for 100 test results with data recall facility. Dedicated software with USB interface for detail report generation & trending analysis.

Applications

XWRM-10 is perfectly suitable for measurements of cold and hot winding resistances of Transformer winding. The instrument is designed for testing of power transformers as well as distribution transformer. Trending of data can reveal vital information about deterioration, incipient faults in tap changer and enables user to take informed decision regarding maintenance.

XWRM-10 useful to following segment

- Transformer Manufacturer
- Motor and Generator Manufacturer
- State Power Utilities
- Large Industrial Sectors
- EPC Contractors
- Testing Agencies



Technical Specification

Power Supply

100-240VAC,50/60 Hz

Test Current

10A, 1A, 100mA & 10mA

Open-Circuit Test Voltage : 42 VDC

Burden : 420VA

Resistance Measurement Range

Resistance Range : 0.1 $\mu\Omega$ to 2k Ω

Accuracy : $\pm(0.2\%$ of rdg. + 5counts)

Resolution : 0.1 $\mu\Omega$

				Range (Ω)	Resolution (Ω)	Maximum Display (Ω)
10A	1A	100mA	10mA			
✓				2m Ω	0.1u Ω	1.9999m Ω
✓	✓			20m Ω	1u Ω	19.999m Ω
✓	✓	✓		200m Ω	10u Ω	199.99m Ω
✓	✓	✓	✓	2 Ω	0.1m Ω	1.9999 Ω
	✓	✓	✓	20 Ω	1m Ω	19.999 Ω
		✓	✓	200 Ω	10m Ω	199.99 Ω
			✓	2000 Ω	0.1 Ω	1999.9 Ω

General

Principle : 4 wire measurement
Measurement Channel : 2 Resistance/1 Current channels

Display : LCD
Keypad : Sealed soft touch keypad
Indication : LED and Beep during Test On & discharge.

PC Interface : USB
Internal memory : 100 test readings

Safety & Standards

IP 54 , CE

Safety : Meets requirement of IEC 61010-1

EMC : Meets requirement of IEC 61326-1

Environmental Conditions

Operating Temperature : 0°C to 55°C

Storage Temperature : -10°C to 55°C

Humidity : <90% RH, Non condensing

Physical Specifications

Dimensions (L x W x H) : 520 x 425 x 230mm

Weight : 11 kg

Software Details

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

Type : Windows based analytical software

Data Transfer : Real time data transfer

Features : Online data acquisition
Graph plotting for heat run test
Remote operation
Test report generation



Standard Accessories

- 15 meter test lead set (1current channel, 2 resistance channels)
- Mains cord
- Short link
- Earthing lead
- User Manual
- Calibration Certificate
- Carry Case

Optional Accessories

- Software
- USB cord

Notes

1. The Instrument is accompanied with Test & calibration sheet. 2. Test Facilities can be provided at the factory with the available test set-ups only. 3. The company's policy is continuous improvement of its products. We therefore reserve the Right of any deviation from illustration or specifications without notice. 4. Stated accuracies are valid from 10% of the range to 95% of the range. 5. Accuracy Specified for temperature range of 25°C \pm 5°C & 55% RH \pm 10%



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