Megger.



Transformer ohmmeter



Test Equipment 99 Washington Street 1-800-517-8431

Depot Melrose, MA 02176 Phone 781-665-1400 Toll Free 1-800-517-8431

Visit us at www.TestEquipmentDepot.com

MTO106 Transformer ohmmeter

- 2 channels with max 6 A current output
- ±0.25% measurement accuracy
- 48 V test voltage for fast saturation of transformers
- Multimeter type operation, intuitive and fast
- Safety through automatic, passive discharge circuitry
- True portability compact size and low weight

DESCRIPTION

The MTO106 transformer ohmmeter is an easy-to-use, line-operated instrument specifically designed for safe and accurate field measurement of winding resistance in smaller transmission and distribution transformers.

It has dual channels with a wide measurement range and can accurately provide information about the vast majority of power transformers, reactors and instrument transformers. The test current can be manually set in five different ranges to fit transformers of various sizes.

The instrument is exceedingly simple to use, which minimizes the need to train service engineers. It has a single selector switch for test current and a single button to activate the test cycle. The instrument is also supplied with test leads fitted with Kelvin clamps that allow for a single, one-time connection to the unit under test. The test leads are 10 m (33 ft) in length to allow for easy testing of pole mounted transformers.

The compact and lightweight instrument is housed in a rugged plastic case for true portability. When closed, the case is rated IP67, which means your instrument will always arrive safely to the testing location even in the harshest conditions.

Users are protected by an automatic discharge function that deenergizes the transformer winding at the end of every test. The discharge function is passive and thus also functions if there is an inadvertent loss of power or if the test or mains leads are accidentally pulled.

APPLICATIONS

The MTO106 is mainly intended for field measurements of smaller transmission and distribution transformers:

- To verify factory test readings
- As part of a regular maintenance program
- To help locate the presence of defects in transformers such as increased contact resistance in terminal connections and tap changers

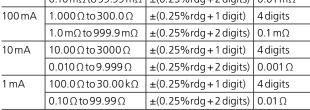
The instrument can also be used for general resistance measurements including: control wiring, voltage regulators, motors, generators and all types of connections.

SPECIFICATIONS

Specifications are valid at nominal input voltage. Specifications are subject to change without notice.

Environment

Application field The instrument is intended for use in high-voltage substations and industrial environments. Temperature Operating -20°C to +50°C (-4°F to +122°F) Storage & transport -50°C to +70°C (-58°F to +158°F) Humidity (operating) 0% – 90% RH, non-condensing **CE-marking** LVD 2014/35/EU EMC 2014/30/EU 2011/65/EU RoHS General Mains voltage 100-240 V AC, 50/60 Hz Input power 400 VA (max) Ruggedized plastic case with removable lid Case and carrying handle, IP 67 when closed *Dimensions (W x D x H)* 360 x 304 x 194 mm (14.2 x 12 x 7.6 in.) Weiaht 7.3 kg (16 lbs) excl. cables Display 4-inch, backlit, monochrome alphanumerical display Test leads 2 x 10 m (33 ft), with banana connectors and Kelvin clamps 1 x 5 m (16 ft), 2.5 mm² Ground lead Measurement section Measurment range 10 µOhm to 30 kOhm Resolution Up to 4 digits Open circuit test voltage up to 48 V DC Measurement voltage up to 20 V DC Current range **Resistance range** Resolution Inaccuracy 6A 10.00 mΩ to 5.000 Ω $\pm (0.25\%$ rdg + 1 digit) 4 digits $0.010 \,\mathrm{m}\Omega \,\mathrm{to} \, 9.999 \,\mathrm{m}\Omega \,|\, \pm (0.25\% \,\mathrm{rdg} + 2 \,\mathrm{digits})$ 0.001 mΩ 1 A 100.0 mΩ to 30.00 Ω $\pm (0.25\%$ rdg + 1 digit) 4 digits $0.10 \,\mathrm{m}\Omega \,\mathrm{to} \,99.99 \,\mathrm{m}\Omega \,|\, \pm (0.25\% \,\mathrm{rdg} + 2 \,\mathrm{digits}) \,|\, 0.01 \,\mathrm{m}\Omega$ 100 mA 1.000Ω to 300.0Ω $\pm (0.25\%$ rdg + 1 digit)





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INCLUDED ACCESSORIES



OPTIONAL ACCESSORIES



Transport case suited for the instrument and cables.

ORDERING INFORMATION			
Item			Cat. No.
MTO106			BN-19090
Included accessories			
Test lead black with banana connector and Kelvin clamp, 10 m (33 ft)	1	GC-32310	
Test lead red with banana connector and Kelvin clamp, 10 m (33 ft)	1	GC-32312	
Ground lead, 5 m (16 ft) 2.5 mm ²	1	GA-00200	
Mains cable	1	AA-00010	
User's manual	1	ZP-BN01E	
MTO106 Report pad	1	XP-BN01E	
MTO106 Reporting template file	1	SB-0022E	
Carry bag	1	2000-091	
MTO106 Without accessories			BN-19000
Optional accessories			
Transport case for instrument and leads			1009-744
MTO106 dual channel measurement lead set			GA-03310
Parts included in the MTO106 dual channel measurement lead set (GA-03310).			
Sensing lead, black, 10 m (33 ft)	1	KG-00530	
Sensing lead, red, 10 m (33 ft)	1	KG-00532	
Timing clamp	2	KD-03040	
Test cable, black, 2 m (6.5 ft)	1	04-35030	

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