



Winding Ohmmeter RMO100M

- Lightweight - only 8 kg
- Test current 5 mA – 100 A DC
- Measuring range 0,1 $\mu\Omega$ - 1000 Ω
- Mechanical protection IP54
- Extremely quick measurement



High DC current resistance meter for motors/generators

Description

The Winding Ohmmeter RMO100M is designed for winding resistance measurement of electrical motors and generators. RMO100M generates true ripple free DC current. The test result is displayed as $R=U/I$.

The RMO100M instrument can store up to 500 measurements. All measurements are time and date stamped. Using RMOWin-M software a test can be performed from a PC, and the results can be obtained directly at a PC. Using RMOWin-M the result can be arranged as an Excel spreadsheet which can be later shown as a diagram and printed for a report. The RMO100M has very high ability to cancel electrostatic and electromagnetic interference in HV electric fields. It is achieved by very efficient filtration. The filtration is made utilizing proprietary hardware and software.

Typical application

Typical application of RMO100M is measuring the resistance of:

- ✓ Generators and electrical motors
- ✓ High-current busbar joints
- ✓ Cable splices

Standard accessories

- ✓ RMOWin-M PC software including USB cable
- ✓ Current cables 2 x 5 m 16 mm² with battery clips
- ✓ Sense cables 2 x 5 m 2,5 mm² with alligator clips
- ✓ Mains power cable
- ✓ Ground (PE) cable
- ✓ Transport bags

Optional accessories

- ✓ Built-in thermal printer
- ✓ Test shunt 100 A / 100 mV
- ✓ Current cables 2 x 10 m 16 mm² with battery clips
- ✓ Sense cables 2 x 10 m 2,5 mm² with alligator clips
- ✓ Transport case

Technical data

1 - Mains Power Supply

- Connection according to IEC/EN60320-1; UL498, CSA 22.2
- Voltage single phase 110 V – 240 V AC, +10 % - -15 %
- Frequency 50 /60 Hz

2 - Output data

- Test current 5 mA DC – 100 A DC
- Measuring range / Resolution
 - 0,1 $\mu\Omega$ - 999,9 $\mu\Omega$ 0,1 $\mu\Omega$
 - 1,000 m Ω - 9,999 m Ω 1 $\mu\Omega$
 - 10,00 m Ω - 99,99 m Ω 10 $\mu\Omega$
 - 100,0 m Ω - 999,9 m Ω 0,1 m Ω
 - 1,000 Ω - 99,99 Ω 10 m Ω
 - 100 Ω - 1000 Ω 0,1 Ω
- Typical accuracy $\pm(0,2\% \text{ rdg} + 0,2\% \text{ FS})$

3 – Environmental conditions

- Operating temperature $-10^{\circ}\text{C} - +50^{\circ}\text{C} / 14^{\circ}\text{F} - +122^{\circ}\text{F}$
- Storage and transportation $-40^{\circ}\text{C} - +70^{\circ}\text{C} / -40^{\circ}\text{F} - +158^{\circ}\text{F}$
- Humidity 5 % - 95 % relative humidity, non condensing

4 - Dimensions and Weight

- Dimensions 198 mm x 255 mm x 380 mm
7,8 in x 10 in x 15 in
(W x H x D) without handle
- Weight 8 kg / 17,6 lb

5– Safety Standards

- European standards EN 61010-1
- International standards IEC 61010-1

6 – Electromagnetic Compatibility (EMC)

- CE conformity EMC standard 89/336/EEC
- Emission EN 50081-2, EN 61000-3-2/3
- Interference Immunity EN 50082-2

Specifications are subject to change without notice.



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