Winding Ohmmeter RMO100M

- Lightweight - only 8 kg
- Test current 5 mA – 100 A DC
- Measuring range 0,1 μΩ - 600 Ω
- Mechanical protection IP43
- 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

Recommended accessories

- ✓ RMOWin-M PC software including USB cable
- ✓ Mains power cable
- ✓ Ground (PE) cable

Optional accessories

- ✓ Current cables 2 x 5 m 16 mm^2
- ✓ Sense cables 2 x 5 m 2,5 mm^2
- ✓ Built-in thermal printer
- ✓ Test shunt 150 A / 150 mV
- ✓ Current cables 2 x 10 m 16 mm^2
- ✓ Sense cables 2 x 10 m 2,5 mm^2
- ✓ Transport bags
- ✓ 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 μΩ - 999,9 μΩ	0,1 μΩ
1,000 mΩ - 9,999 mΩ	1 μΩ
10,00 mΩ - 99,99 mΩ	10 μΩ
100,0 mΩ - 999,9 mΩ	0,1 mΩ
1,000 Ω - 99,99 Ω	10 mΩ
100,0 Ω - 600 Ω	0,1 Ω
- Typical accuracy	± (0,2 % rdg + 0,2 % FS)

3 - Environmental conditions

- Operating temperature	-10 °C - +55 °C / 14 °F - +131 °F
- Storage and transportation	-25 °C - +70 °C / -13 °F - +158 °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 LVD 2006/95/EC
- International standards	IEC 61010-1 UL 61010-1 CAN/CSA-C22.2 No. 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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