

Title: Calibration Of Megger BM8/2 Insulation Tester

Scope

Work Instruction for the internal calibration of Megger BM8/2 insulation testers. To be used in the absence of a manufacturers calibration instruction.

Preparation

Calibration must be carried out using Category A Master instruments as required.

Equipment required;-

1. 45⁰ instrument balance stand
2. Keithley DMM Model 136
3. "Megadek" high resistance box

Method

Calibration

- 3.1 All calibration results must be entered on the results sheets (see appendix A)
 - 3.2 Note the lab temperature and R.H. and enter on results sheet.
 - 3.3 Carry out test 2 using 45⁰ stand.
 - 3.4 Carry out test 3.
 - 3.5 Carry out tests 4 to 8 using the Keithley DMM Model 136
 - 3.6 Carry out tests 9 to 43 using the Megadek high resistance box
 - 3.7 Complete the results sheet header and enter pass or fail
- All records must be kept for audit purposes

References

Appendix A Calibration Results for Megger BM8/2 Insulation Tester

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Appendix A

Calibration Results for Megger BM8/2 Insulation Tester

Model Serial No

Date Result

Lab Temp / RH Operator

User Certificate No

Accuracies quoted are from the manufacturer's specifications or relevant British Standard

Movement Check

Test 1 Is pointer on ∞ - instrument horizontal Pass / Fail

Test 2 Instrument balance ± 1.27 mm at 45° all planes Pass / Fail

Battery Test

Test 3 Select range "B", press test button – does pointer move to scale mark "B" or beyond. Pass / Fail

DC Output Volts into 10 Mohm

Test No	Voltage Range	Allowed Limits	Actual Output Volts	Result
4	1000	774 to 946		Pass / Fail
5	500	420 to 512		Pass / Fail
6	250	219 to 267		Pass / Fail
7	100	87 to 107		Pass / Fail
8	50	43.5 to 53.5		Pass / Fail