

Title: Calibration Of Megger MJ4/2 Insulation And Continuity Tester

Scope

Work Instruction for the internal calibration of Megger MJ4 / 2 Insulation and Continuity 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;

- 1.1 45° instrument balance stand.
- 1.2 Beckman 3020B.
- 1.3 Megadek High Resistance Box.
- 1.4 J.J. Instruments Decade Resistance Box.

Method

- 2.1 All calibration results must be entered on the results sheets (see appendix A).
- 2.2 Note the lab. temperature / R.H. and enter onto the results sheet.
- 2.3 Carry out test 1 using item 1.1.
- 2.4 Carry out tests 2 to 5 using item 1.2.
- 2.5 Carry out tests 6 to 27 using item 1.3.
- 2.6 Carry out tests 28 to 33 using item 1.4.
- 2.7 Complete the results sheet header and enter Pass / Fail.

- All records must be kept for audit purposes

References

Appendix A Calibration Results for Megger MJ4/2 Insulation and Continuity Tester

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Appendix A

Calibration Results for Megger MJ4/2 Insulation and Continuity Tester

ModelSerial No

DateResult

Lab Temp / RHOperator

User LocationCertificate No

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

Movement Check

Test 1 Does the pointer remain within the marked scale at 45° all planes Pass / Fail

Insulation Range Output Voltage

Accuracy at 1000V; - 0 to + 5% at 20 Mohms min
 other ranges – 0 to + 10% 20Mohms min

Test No	Switch Position	Output Voltage	Allowed Limits	Result
2	1000V		1000 to 1050	Pass / Fail
3	500V		500 to 550	Pass / Fail
4	250V		250 to 275	Pass / Fail
5	100V		100 to 110	Pass / Fail