Title: Calibration Of Megger Series 4 Insulation And Continuity Tester

Scope

Work Instruction for the internal calibration of Megger Series 4 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 45^0 instrument balance stand.
1.2 Keithley D.M.M. Model 136.
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 test 2 using item 1.2.

2.5 Carry out test 3.

2.6 Carry out tests 4 to 9 using item 1.3.

2.7 Carry out tests 10 to 17 using items listed in 1.4.

2.8 Complete the results sheet header and enter Pass / Fail.

- All records must be kept for audit purposes

References

Appendix A Calibration Results for Megger Series 4 Insulation and Continuity Tester

Documents
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Appendix A

Calibration Results for Megger Series 4 Insulation and Continuity Tester

Model ……Serial No ……..

Date ……..Result ……

Lab Temp / RH ……Operator ……

User Location ……Certificate No ……

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

Movement Check

Test 1 Instrument balance. The pointer must remain within the marked scale at 45^0 all planes Pass / Fail

Output Voltage into 10 Mohms

Test No	Allowed Limits	Actual Output	Result
2	450 - 550		Pass / Fail

Neon Indication Check

Test 3 Connect the UUT to a 240V mains supply. **Do Not Operate Button.** Does the live line neon illuminate Pass / Fail

Insulation Range Accuracy ± 0.9 mm of marked value

Test No	Resistor Value Mohms	Specified Accuracy	Result
4	INF	± 0.9 mm	Pass / Fail
5	10	± 0.9 mm	Pass / Fail
6	1	± 0.9 mm	Pass / Fail
7	0.1	± 0.9 mm	Pass / Fail
8	0.01	± 0.9 mm	Pass / Fail
9	0	± 0.9 mm	Pass / Fail

Continuity Test Accuracy ± 0.9 mm of marked scale

Test No	Resistor Value Mohms	Specified Accuracy	Result
10	100	± 0.9 mm	Pass / Fail
11	50	± 0.9 mm	Pass / Fail
12	20	± 0.9 mm	Pass / Fail
13	10	± 0.9 mm	Pass / Fail
14	5	± 0.9 mm	Pass / Fail
15	1	± 0.9 mm	Pass / Fail
16	0.1	± 0.9 mm	Pass / Fail
17	0	± 0.9 mm	Pass / Fail

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