Title: Calibration Of Megger BM6 Insulation And Continuity Tester

Scope

Work Instruction for the internal calibration of Megger BM6 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 DMM Model 136.
1.3 Load Resistor.
1.4 Megadek High Resistance Box.
1.5 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 and 1.3

2.5 Carry out test 3 to 8 using item 1.4

2.6 Carry out tests 9 to 19 using item 1.5

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 BM6 Insulation and Continuity Tester

Documents
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Appendix A

Calibration Results for Megger BM6 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 Does pointer remain within marked scale at 45^0 all planes? Pass / Fail

Insulation Range – Output Voltage into 1 Mohm – UUT Accuracy ± 10%

Test No	Specified Output Volts	Allowed Limits	Output Volts	Result
2	500	450 - 550		Pass / Fail

Insulation Range – Calibration

Test No	Resistor Value Mohms	Specified Accuracy	Result
3	INF	± 1.6mm	Pass / Fail
4	100	± 1.6mm	Pass / Fail
5	10	± 1.6mm	Pass / Fail
6	1	± 1.6mm	Pass / Fail
7	0.1	± 1.6mm	Pass / Fail
8	0	± 1.6mm	Pass / Fail

Continuity Range - Calibration

Test No	Range	Resistor Value	Specified Accuracy	Result
9	kOhms	INF	± 1.6mm	Pass / Fail
10	kOhms	1 M ohms	± 1.6mm	Pass / Fail
11	kOhms	100 k Ohms	± 1.6mm	Pass / Fail
12	kOhms	50 k Ohms	± 1.6mm	Pass / Fail
13	kOhms	10 k Ohms	± 1.6mm	Pass / Fail
14	kOhms	0	± 1.6mm	Pass / Fail
15	Ohms	200 ohms	± 1.6mm	Pass / Fail
16	Ohms	100 ohms	± 1.6mm	Pass / Fail
17	Ohms	10 ohms	± 1.6mm	Pass / Fail
18	Ohms	1 ohms	± 1.6mm	Pass / Fail
19	Ohms	0	± 1.6mm	Pass / Fail

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