Title: Calibration Of Megger WM5/WM6 Insulation And Continuity Tester

Scope

Work Instruction for the internal calibration of Megger WM5 / WM6 Insulation and Continuity Tester. 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;-

1.1 450 Instrument Balance Stand
1.2 Keithley DMM Model 136 with Resistor
1.3 Megadek High Resistance Box S
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 temp / relative humidity and enter on calibration 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 tests 3 to 8 using item 1.3.

2.6 Carry out tests 9 to 14 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 WM5 / WM6 Insulation and Continuity Tester

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Appendix A
Calibration Results for Megger WM5 / WM6 Insulation and Continuity Tester

Model ……Serial No ……..

Date ……..Result ……

Lab Temp / RH ……Operator ……

User Location ……Certificate No ……

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

Movement Check

Test 1 **Instrument Balance.**
Pointer must remain within the marked scale instrument at 45^0 all planes Pass / Fail

Test 2 **DC Output Voltage in to 1 Mohms**

Allowed Limits	Actual Output	Result
475V – 550V		Pass / Fail

Insulation Range

Test No	Test Resistance	Allowed Limits	Result
3	Zero	± 1.5mm	Pass / Fail
4	100 kohm	± 1.5mm	Pass / Fail
5	1 Mohm	± 1.5mm	Pass / Fail
6	10 Mohm	± 1.5mm	Pass / Fail
7	100 Mohm	± 1.5mm	Pass / Fail
8	Inf	± 1.5mm	Pass / Fail

Continuity Range

Test No	Test Resistance	Allowed Limits	Result
9	Zero	± 1.5mm	Pass / Fail
10	1	± 1.5mm	Pass / Fail
11	5	± 1.5mm	Pass / Fail
12	10	± 1.5mm	Pass / Fail
13	50	± 1.5mm	Pass / Fail
14	100	± 1.5mm	Pass / Fail

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