

Title: Calibration Of Megger MJ10 Insulation And Continuity Tester

Scope

Work Instruction for the internal calibration of Megger MJ10 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 Datron 9100 Calibrator.
- 1.2 Keithley DMM Model 136.
- 1.3 Megadek High Resistance Box.
- 1.4 Decade Resistance Box.
- 1.5 100kΩ Resistor.
- 1.6 250kΩ Resistor.
- 1.7 500 kΩ Resistor.
- 1.8 1MΩ Resistor.

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 tests 1 and 2.
- 2.4 Carry out tests 3 to 8 using item 1.1.
- 2.5 Carry out tests 9 to 12 using items 1.2, 1.5, 1.6, 1.7 and 1.8.
- 2.6 Carry out tests 13 to 19 using items 1.4.
- 2.7 Carry out tests 20 to 43 using item 1.3.
- 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 MJ10 Insulation and Continuity Tester

Title: Calibration Of Megger MJ10 Insulation And Continuity Tester

Appendix A

Calibration Results for Megger MJ10 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 Is the pointer on infinity, instrument horizontal? Pass / Fail

Test 2 Instrument balance $\pm 0.5\text{mm}$ at 15° all planes Pass / Fail

AC Voltage Range

Test No	UUT Indication Volts (50Hz)	Specified Accuracy $\pm 2.5\%$	Calibrator Voltage	Result
3	600	± 15 volt		Pass / Fail
4	500	± 15 volt		Pass / Fail
5	400	± 15 volt		Pass / Fail
6	300	± 15 volt		Pass / Fail
7	200	± 15 volt		Pass / Fail
8	100	± 15 volt		Pass / Fail

Insulation Ranges : D.C. Output Voltages

Test No	Range	Load Resistor	Output Voltage	Allowed Limits	Results
9	100V	100k		100V min	Pass / Fail
10	250V	250k		250V min	Pass / Fail
11	500V	500k		500V min	Pass / Fail
12	1000V	1M Ω		1000V min	Pass / Fail