

Title: Calibration Of Secondary Current Injection Test Set (Instruments Only)

Scope

Work Instruction for the internal calibration of secondary current injection test sets (instruments only). 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. Solartron DVM Model 7065.
2. Standard resistance Box Type 4738 S/N 157.082 (0.01 ohm / 15A)

Method

- 1.1.1 All calibration results must be entered on the results sheets (see appendix A)
- 1.1.2 Note the lab. temperature / R.H. and enter onto the results sheet.
- 1.1.3 Check zero setting of ammeter and, if necessary, adjust.
- 1.1.4 Carry out tests 2 to 10 using items 1.1.1 and 1.1.2.
- 1.1.5 Check zero setting of voltmeter and, if necessary, adjust.
- 1.1.6 Carry out tests 12 to 20 using item 1.1.1
- 1.1.7 Complete results sheet header and enter Pass / Fail.

- All records must be kept for audit purposes

References

Appendix A Calibration Results for Secondary Current Injection Test Set (Instruments only)

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Appendix A

Calibration Results for Secondary Current Injection Test Set (Instruments only)

Model Serial No

Date Result

Lab Temp / RH Operator

User Location Certificate No

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

A.C. Ammeter Calibration

UUT accuracy: $\pm 2\%$ F.S.D.

Test 1 Is pointer on zero? Pass / Fail

Test No	UUT Range Amps	UUT Indication	Applied Current	Allowed Limits	Result
2	3	1		0.94 – 1.06	Pass / Fail
3	3	2		1.94 – 2.06	Pass / Fail
4	3	3		2.94 – 3.06	Pass / Fail
5	12	2		1.76 – 2.24	Pass / Fail
6	12	4		3.76 – 4.24	Pass / Fail
7	12	6		5.76 – 6.24	Pass / Fail
8	12	8		7.76 – 8.24	Pass / Fail
9	12	10		9.76 – 10.24	Pass / Fail
10	12	12		11.76 – 12.24	Pass / Fail

A.C. Voltmeter Calibration

UUT accuracy: $\pm 2\%$ FSD

Test 11 Is pointer on zero Pass / Fail

Test No	UUT Range Volts	UUT Indication	Applied Voltage	Allowed Limits	Result
12	30	10		9.4 – 10.6	Pass / Fail
13	30	20		19.4 – 20.6	Pass / Fail
14	30	30		29.4 – 30.6	Pass / Fail
15	120	20		17.6 – 22.4	Pass / Fail
16	120	40		37.6 – 42.4	Pass / Fail
17	120	60		57.6 – 62.4	Pass / Fail
18	120	80		77.6 – 82.4	Pass / Fail
19	120	100		97.6 – 102.4	Pass / Fail
20	120	120		117.6 – 122.4	Pass / Fail