

Title: Calibration On Megger Circuit Testing OHM Meter 0 – 3/30 OHMS

Scope Work Instruction for the internal calibration of Megger Circuit Testing OHM Meter 0 – 3/30 OHMs. 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. J.J. Instruments decade resistance box.
2. 45° Instrument balance stand.

Method

1.1.1 All calibration results must be entered on the results sheets (see appendix A)

1.1.2 Note the lab temperature and R.H. and enter on results sheet.

1.1.3 Carry out test 1 using the 45° instrument balance stand.

1.1.4 Carry out test 2, which requires no additional test equipment.

1.1.5 Carry out tests 3 – 15 using the decade resistance box.

1.1.6 Complete results sheet header and enter Pass / Fail.

- All records must be kept for audit purposes

References

Appendix A Calibration Results for Megger Circuit Testing OHM Meter 0 – 3/30 OHM

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Appendix A

Calibration Results for Megger Circuit Testing OHM Meter 0 – 3/30 OHM

Model Serial No

Date Result

Lab Temp / RH Operator

User Location Certificate No

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

Test 1 Instrument Balance:
Does the pointer remain within the marked scale at 45° all planes? Pass / Fail

Test 2 Instrument zero with instrument horizontal:
Switch to inner scale, short leads and operate test button.
Does UUT indicate less than 0.1 ohms? Pass / Fail

Resistance Calibration Accuracy $\pm 2\%$ F.S.D.

Test	Resistance Box ohms	UUT Range	UUT Reading	Allowed Limits	Result
3	0.525	Inner		0.465 to 0.585	Pass / Fail
4	1.025	Inner		0.965 to 1.085	Pass / Fail
5	1.525	Inner		1.465 to 1.585	Pass / Fail
6	2.025	Inner		1.965 to 2.085	Pass / Fail
7	2.525	Inner		2.465 to 2.585	Pass / Fail
8	3.025	Inner		2.965 to 3.085	Pass / Fail
9	1.025	Outer		0.425 to 1.625	Pass / Fail
10	5.025	Outer		4.425 to 5.625	Pass / Fail
11	10.025	Outer		9.425 to 10.625	Pass / Fail
12	15.025	Outer		14.425 to 15.625	Pass / Fail
13	20.025	Outer		19.425 to 20.625	Pass / Fail
14	25.025	Outer		24.425 to 25.625	Pass / Fail
15	30.025	Outer		29.425 to 30.625	Pass / Fail

The UUT was calibrated using the following equipment:

1. JJ Instruments Decade resistance box S/N _____

The uncertainty in the applied value is estimated not to exceed:

D.C. Millivolts : $\pm 0.1\%$

The uncertainty limits quoted refer to the applied values only and do not relate to the stability of the UUT.