

Title: Calibration Of Megger D007 Analogue Ducter Ohm Meter

Scope

Work Instruction for the internal calibration of Megger D007 Analogue Ducter OHM Meter. 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 J.J. Instruments Decade Resistance Box.
- 1.2 H. Tinsley Standard Resistance Box.
- 1.3 Calibrated Shunt 100A / 100mV.
- 1.4 Calibrated Shunt 750A / 75mV.

Method

- 3.2.1 All calibration results must be entered on the results sheets (see appendix A).
- 3.2.2 Note the lab temp / relative humidity and enter on calibration results sheet.
- 3.2.3 Carry out test 1.
- 3.2.4 Carry out tests 2 to 12 using item 1.1.
- 3.2.5 Carry out tests 13 and 14 using item 1.2.
- 3.2.6 Carry out test 15 using item 1.3.
- 3.2.7 Carry out test 16 using item 1.4.
- 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 D007 Analogue Ducter OHM Meter

Title: Calibration Of Megger D007 Analogue Ducter Ohm Meter

Appendix A

Calibration Results for Megger D007 Analogue Ducter OHM Meter

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.

Test 1 Select "Set Zero" and adjust for zero indication Pass / Fail

Calibration

UUT accuracy: $\pm 1\%$ FSD

Test No	UUT Range OHMS	UUT Reading OHMS		Applied Value OHMS	Allowed Limits	Result
		Fwd	Rev			
2	10			1	0.9 to 1.1	Pass / Fail
3	10			2	1.9 to 2.1	Pass / Fail
4	10			3	2.9 to 3.1	Pass / Fail
5	10			4	3.9 to 4.1	Pass / Fail
6	10			5	4.9 to 6.1	Pass / Fail
7	10			6	5.9 to 6.1	Pass / Fail
8	10			7	6.9 to 7.1	Pass / Fail
9	10			8	7.9 to 8.1	Pass / Fail
10	10			9	8.9 to 9.1	Pass / Fail
11	10			10	9.9 to 10.1	Pass / Fail
12	1			0.925	0.915 to 0.935	Pass / Fail
13	0.1			0.05	0.049 to 0.051	Pass / Fail
14	10m			5m	4.9m to 5.1m	Pass / Fail
15	1m			1m	0.99m to 1.01m	Pass / Fail
16	100u			100u	99u to 101u	Pass / Fail

The UUT was calibrated using the following equipment:

1. J.J. Instruments Decade Resistance Box S/N _____
2. H. Tinsley Standard Resistance Box S/N _____
3. Calibrated Shunt 100A / 100mV S/N _____
4. Calibrated Shunt 750A / 75mV S/N _____

The uncertainty of measurement is estimated not to exceed:

100 uohms : 0.41%
1m ohm : 0.14%
0.005 ohm to 0.05 ohm : 0.053%
0.9 ohm to 10 ohm : 0.105% + 2.5m

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