Title: Calibration Of Megger CBT2 RCD Tester

Scope

Work Instruction for the internal calibration of Megger CBT2 RCD testers. 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;-

Method

See Appendix A

References

Appendix A Calibration Results for Megger CBT2 RCD Tester

Documents
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Appendix A

Calibration Results for Megger CBT2 RCD Tester

Model ……Serial No ……..

Date ……..Result ……

Lab Temp / RH ……Operator ……

User Location ……Certificate No ……

All tests carried out to manufacturer's specifications or relevant British Standard

Neon Indicators

Test 1 L – N Pass / Fail
Test 2 L – E Pass / Fail

Current Calibration Accuracy ± 3% at 240V

Test No	UUT Setting MA	Current MA	Supply Voltage	Calculated Resistance	Allowed Limits	Result
3	500				465 – 494	Pass / Fail
4	300				776 – 824	Pass / Fail
5	250				957 – 963	Pass / Fail
6	150				1k55 – 1k65	Pass / Fail
7	100				2k33 – 2k47	Pass / Fail
8	50				4k66 – 4k94	Pass / Fail
9	30				7k76 – 8k24	Pass / Fail
10	15				15k5 – 16k5	Pass / Fail
11	10				23k3 – 24k7	Pass / Fail
12	6				38k8 – 41k2	Pass / Fail
13	5				46k6 – 49k4	Pass / Fail
14	3				77k6 – 82k4	Pass / Fail

Timing Calibration Accuracy ± 1% Rdg. ± 2 digits

Test No	Conditions	UUT Time	Actual Time	Result
15	Max test time (1 second)			Pass / Fail
16	RCCB test 30mA 0 degrees			Pass / Fail
17	RCCB test 30mA 0 degrees			Pass / Fail
18	RCCB Test 30mA 180 degrees			Pass / Fail
19	RCCB Test 30mA 180 degrees			Pass / Fail
20	Random test 30mA			Pass / Fail
21	Random test 30mA			Pass / Fail
22	Random test 30mA			Pass / Fail
23	Random test 30mA			Pass / Fail
24	Random test 30mA			Pass / Fail

The UUT was calibrated using the following equipment: S/N _____

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