Title: Calibration Of Weir 6 Inch Analogue D.C. Ammeter 0 – 10 Amp

Scope

Work Instruction for the internal calibration of Weir 6 Inch Analogue D.C. Ammeter 0 – 10 Amp. 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 45^0 instrument balance stand.

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 test 1.

2.4 Carry out test 2 using item 1.2.

2.5 Carry out tests 3 to 7 using item 1.1.

2.6 Complete the results sheet header and enter Pass / Fail.

- All records must be kept for audit purposes

References

Appendix A Calibration Results for Weir 6 Inch Analogue D.C. Ammeter 0 – 10A

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Appendix A

Calibration Results for Weir 6 Inch Analogue D.C. Ammeter 0 – 10A

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 Is the pointer on zero? Pass / Fail

Test 2 Does the pointer remain within ± 1% at 45^0 all planes? Pass / Fail

Calibration
UUT accuracy: ± 1.5% F.S.D.

Test No	UUT Reading Amps	Calibrator Reading	Allowed Limits	Result
3	2		1.85 to 2.15	Pass / Fail
4	4		3.85 to 4.15	Pass / Fail
5	6		5.85 to 6.15	Pass / Fail
6	8		7.85 to 8.15	Pass / Fail
7	10		9.85 to 10.15	Pass / Fail

The UUT was calibrated using the following equipment:

1. Datron 9100 Calibrator S/N _____

The uncertainty of measurement is estimated not to exceed:
D.C. Current: ± 0.05%

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

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