Title: Calibration Of Weir 6 Inch D.C. Voltmeter 0 – 50V

Scope

Work Instruction for the internal calibration of Weir 6 Inch D.C. Voltmeter 0 – 50V. 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. temperature / R.H. and enter onto the 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 of Weir 6 Inch D.C. Voltmeter 0 – 50V

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Appendix A

Calibration of Weir 6 Inch D.C. Voltmeter 0 – 50V

Model ……Serial No ……..

Date ……..Result ……

Lab Temp / RH ……Operator ……

User Location ……Certificate No ……

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

Movement Check

Test 1 Is pointer on zero? Pass / Fail

Test 2 Instrument balance ± 1% at 45^0 all planes Pass / Fail

Voltage Calibration Accuracy ± 2% F.S.D.

Test No	UUT Indication Volts	Calibrator Voltage	Allowed Limits	Result
3	10		9 to 11	Pass / Fail
4	20		19 to 21	Pass / Fail
5	30		29 to 31	Pass / Fail
6	40		39 to 41	Pass / Fail
7	50		49 to 51	Pass / Fail

The UUT was calibrated using the following equipment:

1. Datron 9100 Calibrator S/N _____

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

D.C. Volts: ± 0.03%

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

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