

Title: Calibration Of Weir 6 Inch D.C. Ammeter / Mv Meter Range 200A / 150mv

Scope

Work Instruction for the internal calibration of Weir 6 Inch D.C. Ammeter / mV Meter Range 200A / 150mV. 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° 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 6 using item 1.1 with the 50 ohm override on.
- 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. Ammeter / mV Meter Range 200A / 150 mV

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Appendix A

Calibration of Weir 6 Inch D.C. Ammeter / mV Meter Range 200A / 150 mV

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? – instrument horizontal Pass / Fail

Test 2 Instrument balance $\pm 1\%$ at 45° all planes Pass / Fail

Millivolt Calibration Accuracy $\pm 1.5\%$ F.S.D.

Test No	UUT Indication A/mV	Calibrator mV	Allowed Limits	Result
3	50 / 37.5		35.25 – 39.75	Pass / Fail
4	100 / 75		72.75 – 77.25	Pass / Fail
5	150 / 112.5		110.25 – 114.75	Pass / Fail
6	200 / 150		147.75 – 152.25	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. Millivolts: $\pm 0.06\%$

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