Title: Calibration Of Ferranti Panel Mounted Meter 0 – 10 / 40kv 50 Hz (Fitted To Glove Test Set)

Scope

Work Instruction for the internal calibration of Ferranti Panel Mounted Meter 0 – 10 / 40 kV 50 Hz (Fitted to Glove Test Set). 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.

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 **Do Not connect to mains supply**. Connect the calibrator to pins 1 and 2 of the output plug.

2.4 Carry out test 1.

2.5 Carry out tests 2 to 10 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 Ferranti Panel Mounted Meter 0 – 10 / 40kV 50 Hz (Fitted to Glove Test Set)

Documents
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Appendix A
Calibration Results for Ferranti Panel Mounted Meter 0 – 10 / 40kV 50 Hz (Fitted to Glove Test Set)

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

Calibration at 50Hz Accuracy ± 2% FSD

Test No	Range kV	UUT Reading kV/V	Calibrator Reading Volts	Allowed Limits	Results
2	10	2 / 12.57		11.31 to 13.83	Pass / Fail
3	10	4 / 25.14		24.88 to 26.40	Pass / Fail
4	10	6 / 37.71		36.45 to 38.97	Pass / Fail
5	10	8 / 50.29		49.03 to 51.55	Pass / Fail
6	10	10 / 62.86		61.60 to 64.12	Pass / Fail
7	40	10 / 62.86		57.83 to 67.89	Pass / Fail
8	40	20 / 125.71		120.68 to 130.74	Pass / Fail
9	40	30 / 188.57		183.54 to 193.60	Pass / Fail
10	40	40 / 251.43		246.40 to 256.46	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:
A.C. Volts: ± 0.1%

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

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