Title: Calibration Of Kent Moore Four Probe Digital Thermometer

Scope

Work Instruction for the internal calibration of Kent-Moore Four Probe Digital Thermometers. 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 Haven OTB-7D Bath and Heater System.
1.2 Glass Thermometer.
1.3 Techne Fridge Unit.

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 tests 1 to 6 using items 1.1, 1.2 and 1.3.

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

- All records must be kept for audit purposes

References

Appendix A Calibration Results for Kent-Moore Four Probe Digital Thermometer

Documents
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Appendix A

Calibration Results for Kent-Moore Four Probe Digital Thermometers

Model ……Serial No ……..

Date ……..Result ……

Lab Temp / RH ……Operator ……

User Location ……Certificate No ……

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

Digital Thermometer

Accuracy : ± 2^0F

Test No	Bath Temperature ^{0}C	Digital Temperature ^{0}F	Digital Thermometer Reading ^{0}F	Allowed Limits	Results
1	- 20	- 4		- 6 to – 2	Pass / Fail
2	0	32		30 to 34	Pass / Fail
3	10	50		48 to 52	Pass / Fail
4	20	69		66 to 70	Pass / Fail
5	25	77		75 to 79	Pass / Fail
6	40	104		102 to 106	Pass / Fail

The UUT was calibrated using the following equipment:

1. Glass Thermometer S/N _____
2. Haven OTB-7D Bath and Heater System S/N _____
3. Techne Fridge Unit S/N _____

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

Temperature: ± 0.5^0C

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

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