

Title: Calibration Of Kane-May Dependatherm Analogue Thermometer Type MRC / 2

Scope

Work Instruction for the internal calibration of Kane-May Dependatherm Analogue Thermometer Type MRC / 2. 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 Techne Fridge Unit.
- 1.3 Glass Thermometer.
- 1.4 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 the instrument balance stand.
- 2.5 Carry out test 3.
- 2.6 Carry out tests 4 to 20, depending on which probes are supplied, using items 1.1, 1.2 and 1.3.
- 2.7 Complete the results sheet header and enter Pass / Fail.

- All records must be kept for audit purposes

References

Appendix A Calibration Results for Kane-May Dependatherm Analogue Thermometer Type MRC / 2

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Appendix A

Calibration Results for Kane-May Dependatherm Analogue Thermometer Type MRC / 2

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.

Movement Check

Test 1	Is the pointer on zero? – instrumental horizontal	Pass / Fail
Test 2	Instrument balance: $\pm 1\%$ F.S.D. at 45° in all planes	Pass / Fail
Test 3	Battery check: Insert the probe with "B" facing upward and depress the test button. Does the pointer move to the red mark	Pass / Fail

Calibration Accuracy $\pm 1^\circ\text{C}$

Probe -25° to 0°C

Test No	Bath Temperature $^\circ\text{C}$	UUT Reading	Allowed Limits	Result
4	- 2		- 19 to - 21	Pass / Fail
5	- 15		- 14 to - 16	Pass / Fail
6	- 10		- 9 to - 11	Pass / Fail
7	- 5		- 4 to - 6	Pass / Fail
8	0		- 1 to + 1	Pass / Fail

Probe 0°C to 50°C

Test No	Bath Temperature $^\circ\text{C}$	UUT Reading	Allowed Limits	Result
9	0		- 1 to + 1	Pass / Fail
10	10		9 to 11	Pass / Fail
11	20		19 to 21	Pass / Fail
12	30		29 to 31	Pass / Fail
13	40		39 to 41	Pass / Fail
14	50		49 to 51	Pass / Fail