Title: Calibration Of Hatfield L.M.S. Type 1008A

Scope

Work Instruction for the internal calibration of Hatfield L.M.S. Type 1008A. 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 Solartron Model 7065 Microprocessor Voltmeter.
1.2 Levell Decade Oscillator Type TG66A.
1.3 Datron 9100 calibrator.

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.

2.5 Carry out tests 3 to 17 using item 1.1. set to a dB programme and item 1.3. as a signal source.

2.6 Carry out tests 18 to 19 using item 1.1. set to a dB programme and item 1.2 as a signal source.

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

- All records must be kept for audit purposes

References

Appendix A Calibration of Hatfield L.M.S. Type 1008A

Documents
Document Sharing Hub

Copyright Network Rail
Provided by IHS under license with Network Rail
No reproduction or networking permitted without license from IHS
Full document details: NR NR-L3-MTC-ME0201-CAL257 I 2008

Licensee=Weston Williamson/5989497001, User=sam, albett
Not for Resale, 03/27/2016 23:44:55 MDT

Title: Calibration Of Hatfield L.M.S. Type 1008A

Appendix A

Calibration of Hatfield L.M.S. Type 1008A

Model ……Serial No ……..

Date ……..Result ……

Lab Temp / RH ……Operator ……

User Location ……Certificate No ……

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

Battery Check

Test 1 Switch to Battery check position and operate On button.
Does pointer indicate above Replace Battery? Pass / Fail

Preliminary Adjustment

Test 2 Apply a signal of OdB, 800Hz and adjust CAL for OdB on UUT
Does the UUT adjust to OdB Pass / Fail

Meter Calibration

UUT Accuracy, 0 to 5 db; ± 0.15 dB
below – 5dB; ± 0.25 dB

Test No	Frequency Hz	UUT Level dB	Measured Level dB	Allowed Level dB	Result
3	800	0		- 0.15 to + 0.15	Pass / Fail
4	800	- 2		- 1.85 to – 2.15	Pass / Fail
5	800	- 4		- 3.85 to – 4.15	Pass / Fail
6	800	- 6		- 5.75 to – 6.25	Pass / Fail
7	800	- 8		- 7.75 to – 8.25	Pass / Fail
8	800	- 10		- 9.75 to – 10.25	Pass / Fail

Attenuator Calibration Accuracy ± 0.2dB

Test No	Frequency Hz	UUT Level dB	Measured Level dB	Allowed Level dB	Result
9	800	+ 30		+ 29.8 to + 30.2	Pass / Fail
10	800	+20		+ 19.8 to + 20.2	Pass / Fail
11	800	+10		+ 9.8 to + 10.2	Pass / Fail
12	800	- 10		- 9.8 to – 10.2	Pass / Fail
13	800	- 20		- 19.8 to – 20.2	Pass / Fail
14	800	- 30		- 29.8 to – 30.2	Pass / Fail
15	800	- 40		- 39.8 to – 40.2	Pass / Fail

--`,,`,`,`,`,`,`,,`,`,,,,,,`,`,`,`,,`,`,`,`---

Documents
Document Sharing Hub

Copyright Network Rail
Provided by IHS under license with Network Rail
No reproduction or networking permitted without license from IHS

Licensee=Weston Williamson/5989497001, User=sam, albett
Not for Resale, 03/27/2016 23:44:55 MDT

Full document details: NR NR-L3-MTC-ME0201-CAL257 I 2008