

CERTIFICATE OF CALIBRATION

2001-20644

Customer information

Client : Cleanroom Control And Sterilization Technology
Contact : Mevr. Angelika Zweimüller
Address : Triesterstrasse 36
2512 Oeynhausen
Germany
Reference client : CP0999 RevA
Reference Trescal : 202004585/1

Instrument information

Make / type : AMPTEK INC / MCA8000D
Description : Recorder/datalogger
Range :
Serial number : 00791
Identification number : 300001
Accuracy :

Date of calibration : 14 February 2020

Method of calibration

P1-02-E.025 Calibration of multimeters.

Environmental conditions (limits during measurements)

Ambient temperature : 23 °C ± 1 °C
Relative humidity : 40%rh - 55%rh

Used reference

The equipment used is traceable to National and/or International standards.
150654/2 High performance Calibrator Cert.181116156

Note

The instrument is measured but not adjusted, so the results are both 'as found' as 'as left'.

Conclusion

All reported results are within the accuracy specified by the manufacturer, without taking into account the proven uncertainty.

Issue date: 14 February 2020

Technician
Elco Ooms



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Unless otherwise stated, the calibration was performed at the address mentioned in the footnote.

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Conclusion : The results comply with the manufacturer specifications.

Calibration Method : After acclimatising for a period not less than 1 hour; the measurement functions of the MCA800D are verified using a calibrator.

The instrument is not adjusted.

The measured values are the result of 1 observations.

The error is defined as value of the UUT (reading/setting) - value of the Standard(supplied/measured).

Gain accuracy at 1 kHz

UUT Range	Supplied	UUT Reading	Limit Min	Limit Max	Error ± Uncertainty
1 V	800,0 mV	0,80107 V	0,79508 V	0,80499 V	(1,1 ± 0,4) mV
10 V	8,000 V	8,0009 V	7,9508 V	8,0499 V	(1 ± 4) mV

The stated uncertainty is that of the entire set-up including the object under test.

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95% .

The uncertainty is calculated following EA-4/02 in accordance with the requirements of the ISO/IEC 17025.