

CALIBRATION CERTIFICATE

2101-16012

Customer information

Client : Cleanroom Control And Sterilization Technology
Contact : Mevr. Angelika Zweimüller
Address : Triesterstrasse 36
2512 Oeynhausen
Germany
Reference client :
Reference Trescal : 202102573/1

Instrument information

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

Date of calibration : 02 February 2021

Method of calibration

P1-02-E.017 Calibration of recorders and dataloggers

Environmental conditions (used in determination of uncertainty)

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

Used reference

The measurements have been executed using standards for which the traceability to (inter)national standards has been demonstrated towards the Dutch Accreditation Council (RvA).
150654/3 High performance Calibrator Cert.200902846

Note

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

Issue date: 02 February 2021

Technician
Eelco Ooms



Head of the laboratory
Luc Van Pelt



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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 MCA8000D 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 $\pm$ Uncertainty
1 V	800,0 mV	0,80119 V	0,79508 V	0,80499 V	(1,2 $\pm$ 0,4) mV
10 V	8,000 V	8,0021 V	7,9508 V	8,0499 V	(2 $\pm$ 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.