

## CALIBRATION CERTIFICATE

2201-09955

### Customer information

Client : Cleanroom Control And Sterilization Technology  
Contact : Mevr. Angelika Zweimüller  
Address : Triesterstrasse 36  
2512 Oeynhausen  
Germany  
Reference client : CP0999  
Reference Trescal : 202202196/1

### Instrument information

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

Date of calibration : 25 January 2022

### Method of calibration

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

### Environmental conditions

During these measurements the following conditions were not exceeded:

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).  
25767/10 Multifunction calibrator Cert.200914525

### Note

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

Issue date: 25 January 2022

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 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	0,80009 V	0,79508 V	0,80499 V	(0,1 ± 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 expanded uncertainty is based on the standard uncertainty of the measurement multiplied by a coverage factor k, such that the coverage probability corresponds to approximately 95%.

The uncertainty is calculated following EA-4/02 .