



Adjustment and calibration certificate #0000211741

Object

Instrument:

MAS-100 NT / NT Ex Microbial AirSampler

Serial number:

0000121475

FW version:

1.7.18

HW version:

8

Name:

Head 1

Department:

Location 1

Perforated lid:

400 × 0.7 mm

Calibration procedure:

MBV SOP / Version 1.6.31

Adjustment equipment

Serial number:

18007

Adjustment date:

31.7.2021

Deviation:

0.0 [l/min]

Adjustment data

Adjustment date:

13.04.2022

Adjustment conditions:

Temp.: 24.0 [°C], Amb. Pressure: 975 [mbar]

ADC at 0 flow:

794 [mV]

ADC at target flow:

3019 [mV]

Gain:

78

Calibration equipment

Serial number:

18007

Adjustment date:

31.7.2021

Deviation:

0.0 [l/min]

Calibration data

Calibration date:

13.04.2022

Calibration conditions:

Temp.: 24.0 [°C], Amb. Pressure: 975 [mbar]

Run time check:

Passed

Calibration results:

		Sequence			Result
		1	2	3	
Target air flow	SLPM	100.0	100.0	100.0	100.0
Air flow on anemometer measurement 1	SLPM	99.8	99.8	99.8	NA
Air flow on anemometer measurement 2	SLPM	99.8	100.0	99.9	NA
Air flow on anemometer measurement 3	SLPM	100.0	99.6	99.8	NA
Air flow	SLPM	99.9	99.8	99.8	NA
Flow deviation of the anemometer <sup>1</sup>	l/min	0.0	0.0	0.0	NA
Calibration result (corr. air flow of anemometer)	SLPM	99.9	99.8	99.8	99.8
Deviation from target air flow Maximum allowable deviation: ± 2.5%	%	-0.1	-0.2	-0.2	-0.2
Calibration check status:					Accepted

1) For the DA-100 NT the deviation mentioned on the calibration certificate is not normalized to SLPM conditions (20°C; 1013 mbar) as it is not significant: The correction would be 0.34% per °C (1/293) and 0.09% (1/1013) per mbar difference to the SLPM standard conditions. E.g. a 0.2 l/min deviation measured at 25°C and 940 mbar leads to an error of 8.8% or 0.018 l/min.

Calibrated by:

J. Guevara

Signature:

This report has been produced by an electronic system and is valid with a single signature of the calibrator.

Date of activation by user:

Signature:

Due date: <sup>2</sup>

<sup>2</sup>) 12 months after the first activation