



Adjustment and calibration certificate # iun2023

Object	Instrument: MAS-100 NT / NT Ex Microbial Air Sampler
	Serial number: 0000121475
	FW version: 1.7.18
	HW version: 8
	Name: Head 1
	Department: Location 1
	Perforated lid: 300 x 0.6 mm
	Calibration procedure: MBV SOP / Version 1.6.31

Adjustment equipment	Serial number: 18278
	Adjustment date: 13-Jan-23
	Deviation: 0.0 [l/min]

Adjustment data	Adjustment date: 26-Jun-23
	Adjustment conditions: Temp.: 24.3 [°C], Amb. Pressure: 999 [mbar]
	ADC at 0 flow: 794 [mV]
	ADC at target flow: 3112 [mV]
	Gain: 85

Calibration equipment	Serial number: 18278
	Adjustment date: 13-Jan-23
	Deviation: 0.0 [l/min]

Calibration data	Calibration date: 26-Jun-23
	Calibration conditions: Temp.: 24.3 [°C], Amb. Pressure: 998 [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	100.3	100.4	100.2	NA
Air flow on anemometer measurement 2	SLPM	100.3	100.2	100.2	NA
Air flow on anemometer measurement 3	SLPM	100.2	100.2	100.6	NA
Air flow	SLPM	100.3	100.3	100.3	NA
Flow deviation of the anemometer ¹	l/min	0.0	0.0	0.0	NA
Calibration result (corr. air flow of anemometer)	SLPM	100.3	100.3	100.3	100.3
Deviation from target air flow	%	0.3	0.3	0.3	0.3
Maximum allowable deviation: ± 2.5%					
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: Silvia Noman Signature: _____

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

Due date: 25-Jun-24