

# Calibration Certificate

**SwemaAir 5**  
Part no. 768480

**Calibration:**

S/N: 672389  
 Manufacture Date: 2018-09-26  
 Calibration Date: 2018-10-01  
 Next Calib. Date: 2019-10-01  
 Calibrated at: SWEMA  
 Temperature: 23.31 °C  
 Relative Humidity: 35.15 %  
 Atmospheric Pressure: 1001.1 hPa

**Uncertainty of measurement:**

Coverage probability 95%  
 Instrument uncertainty – see manual

**Air velocity:**

0.07-0.5 m/s ±0.03 m/s  
 0.50-2.00 m/s ±0.04 m/s  
 2.00-12.0 m/s ±2%  
 12.0-30.0 m/s ±1%

Temperature: ±0.2°C

Barometer: ± 1.0 hPa

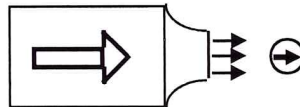
**Measuring method:**

Calibration in a free air stream.

**The sensors position in the air stream:**

Horizontal with the arrow in the air stream direction.

Reference	Read	Corr
0.100 m/s	0.103 m/s	-0.003
0.251 m/s	0.250 m/s	0.001
0.600 m/s	0.600 m/s	0.001
0.999 m/s	1.000 m/s	-0.001
2.001 m/s	2.002 m/s	-0.001
2.999 m/s	2.989 m/s	0.010
5.003 m/s	5.014 m/s	-0.011
7.001 m/s	6.989 m/s	0.012
9.989 m/s	9.959 m/s	0.030
11.986 m/s	11.963 m/s	0.023
20.150 m/s	20.135 m/s	0.015
29.580 m/s	29.622 m/s	-0.042
22.02 °C	22.02 °C	0.00
1000.7 hPa	1000.7 hPa	0.0



Calibrated by

*Mita Das*  
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 Mita Das



**Measuring equipment:**

Parameter	Name	ID
Wind tunnel Differential pressure	MKS Baratron	R/N 1
Wind tunnel Atmospheric pressure	HALSTRUP /BA90	A/N 69
Wind tunnel Air temperature Relative humidity	Rotronic I200	A/N 5
Air temperature for calibration	TempmasterPro Pt100 sensor	R/N 43 R/N 44
Atmospheric pressure for calibration	DRUCK /DPI	R/N 35
Air velocity 15, 20, 30m/s	Windtunnel SWEMA 1	
	Pito static tube Acc. to ISO3966	R/N 3
Differential pressure	Swema 3000md	A/N 83

**Traceability:**

The measuring equipment is traceable  
calibrated to these official measuring centres

Parameter	Measuring centre
Differential pressure	MIKES Metrology, VTT Technical Research Centre of Finland Ltd
Atmospheric pressure	RISE Research Institute of Sweden AB
Air temperature	RISE Research Institute of Sweden AB
Relative humidity	Rotronic AG, Switzerland



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