Calibration Certificate 185028957

Issued for:

PN Engineering APS
Godhedsmindevej 29
5260 Odense S

1) Calibrated Instrument

Manufacturer: **SWEMA**
Type: **SwemaAir50**
Device Designation: **Anemometer**
Device Serial Number: **365009**
Device ID: **107959**

2) Calibrating Conditions

Operator: **P.S.**
Date: **13-12-2018**
Ambient Temperature: **22,5 °C**
Relative humidity: **30 %HR**
Atmospheric Pressure: **1023 hPa**
Calibrating Principles: **The point of calibration are realized with means of calibration according to : bench velocity WT180-500, measuring from 0,3 to 28 m/s controlled with flow transmitter CTV310, and two pressure transmitters CP301, CP303. All devices are held against the references instrument SWEMA 3000md sn: 676029 with probe SWA-31 sn: 386429 and pitot tube sn: 12972, which is traceable to national standard by SP certificates.**

3) Measurement results

Vr (m/s)	Vi (m/s)	Vi-Vr (m/s)	Uncertainty (m/s)
0,3	0,32	0,020	0,04
0,6	0,63	0,030	0,04
1,0	1,03	0,030	0,05
2,0	2,04	0,040	0,07
3,0	3,05	0,050	0,08
4,0	4,05	0,050	0,10
6,0	6,04	0,040	0,11
8,0	8,02	0,020	0,13
10,0	10,00	0,000	0,14
15,0	15,24	0,240	0,17

Vr: value displayed by our reference instrument, Vi: valeur displayed by customer's instrument.

Comments: **The temperature checking give : Vr 21,9°C ; Vi 21,7°C**

the measurement uncertainty stated is a combination of laboratory and shot term contributions from calibration item. The uncertainty is given with a coverage factor of 2 corresponding to a coverage probability of approx. 95%.
the values stated are valid for the calibration item only and are mean values of 3 successive readings. The measurement uncertainty is calculated in accordance with EA-4/02.

Laboratories manager