elma instruments

Calibration Certificate sn 202335688

I. Air velocity

I. 1) Calibrated Instrument

Manufacturer: **Kimo**
Type: **LV110**
Device Designation: **Anemometer**
Device Serial Number: **1P190573587**
Device ID: **118709**

I. 2) Calibrating Conditions

Operator: **Bjarke Kjær Olesen**
Date: **16-10-2023**
Ambient Temperature: **23,1 °C**
Relative humidity: **36 %HR**
Atmospheric Pressure: **1010 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.**

I. 3) Measurement results

Vr (m/s)	Vi (m/s)	Vi-Vr (m/s)	Uncertainty (m/s)
0,8	0,73	-0,070	0,05
1	0,88	-0,120	0,05
2	1,92	-0,080	0,07
3	2,88	-0,120	0,08
4	4,0	0,000	0,10
6	6,1	0,100	0,11
8	8,3	0,300	0,13
10,0	10,3	0,300	0,14
12	12,8	0,800	0,15
16	17,1	1,100	0,18

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

Comments: **The temperature checking give : Vr 25,0°C ; Vi 25,0°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.

Calibrated by:
Bjarke Kjær Olesen - Service technician