



## CALIBRATION CERTIFICATE

**Instrument** PTB110 Barometer  
**Serial number** D5020014  
**Manufacturer** Vaisala Oyj, Finland  
**Calibration date** 11th December 2008  
**Test procedure** doc210434B

This instrument has been calibrated against a Vaisala PTB220 factory working standard. The Vaisala PTB220 is traceable to the National Institute of Standards and Technology (NIST, USA) via Vaisala Measurement Standards Laboratory (MSL). Vaisala MSL has been accredited by FINAS according to ISO/IEC 17025 standard.

At the time of shipment, the instrument described above was within its operating specifications.

### Calibration results

Reference pressure hPa	Calculated pressure hPa	Observed voltage Vdc	Correction* hPa	Uncertainty** hPa
510.1	510.1	0.042	0.0	± 0.15
610.1	610.0	0.459	0.1	± 0.15
700.3	700.2	0.834	0.1	± 0.15
810.1	810.1	1.292	0.0	± 0.15
900.1	900.1	1.667	0.0	± 0.15
999.8	999.8	2.083	0.0	± 0.15
1059.8	1059.8	2.333	0.0	± 0.15
1099.8	1099.8	2.499	0.0	± 0.15

\*To obtain the true pressure, add the correction to the barometer reading. Interpolated corrections may be used at intermediate readings of the scale of the barometer.

\*\*The calibration uncertainty given at 95 % confidence level,  $k = 2$

### Equipment used in the calibration

Type	Serial number	Calibration date	Certificate number
HP34970A	EM 10546	2007-07-23	K004-07S563
PTB220	PA 9575	2008-09-29	K008-R02152


### Ambient conditions

Humidity:  $35 \pm 5$  %RH

Temperature:  $22 \pm 2$  °C

Pressure:  $1009 \pm 20$  hPa

For Vaisala Oyj

  
 Kristian Hirvi

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