

## CALIBRATION CERTIFICATE

**Instrument** PTB220 Class A digital barometer  
**Serial number** C2750001  
**Manufacturer** Vaisala Oyj, Finland  
**Calibration date** 09<sup>th</sup> July 2007  
**Test procedure** doc210434A

This instrument has been calibrated against a Ruska 2465 pressure balance 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	Observed pressure hPa	Correction* hPa	Uncertainty** hPa
499.51	499.49	0.02	± 0.07
598.99	598.99	0.00	± 0.07
698.47	698.45	0.02	± 0.07
800.88	800.86	0.02	± 0.07
900.35	900.34	0.01	± 0.07
947.17	947.17	0.00	± 0.07
999.84	999.85	-0.01	± 0.07
1099.31	1099.32	-0.01	± 0.07

\*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
RUSKA 2465	TL-1242	2006-11-25	P01693
MKS SRG2	90768 G / 91794	2006-09-22	M-06P113

### Ambient conditions

Humidity:  $43 \pm 5$  %RH

Temperature:  $24 \pm 1$  °C

Pressure:  $996 \pm 1$  hPa

For Vaisala Oyj



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