



# CALIBRATION CERTIFICATE

## Before adjustment

**Instrument** PTB220 Class A Digital Barometer  
**Serial number** Y0620001  
**Manufacturer** Vaisala Oyj, Finland  
**Calibration date** 15th October 2012

The above instrument was calibrated by comparing the readings of the instrument to the factory working standard of Vaisala.

The pressure readings of the factory working standard have been calibrated at an ISO/IEC 17025 accredited calibration laboratory (FINAS), Vaisala Measurement Standards Laboratory (MSL), by using MSL working standards traceable to NIST.

### Calibration results

Reference hPa	Observed hPa	Correction* hPa
500.01	500.14	-0.13
550.02	550.13	-0.11
650.02	650.12	-0.10
750.01	750.09	-0.08
850.01	850.07	-0.06
950.01	950.07	-0.06
1000.00	1000.05	-0.05
1050.01	1050.05	-0.04
1100.01	1100.06	-0.05

\*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.

### Equipment used in calibration

Type	Serial number	Calibration date	Certificate number
PPC4	439	2011-10-21	1500134855

### Uncertainty ( 95 % confidence level, k=2)

Pressure  $\pm 0.07$  hPa

### Ambient Conditions

Humidity 41 %RH  $\pm$  5 %RH  
 Temperature 22 °C  $\pm$  1 °C  
 Pressure 1003 hPa  $\pm$  1 hPa

Approved By

Technical Operator



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### Calibration results

Reference hPa	Observed hPa	Correction* hPa	Acceptance limit hPa
500.01	500.00	0.01	± 0.05
550.02	550.01	0.01	± 0.05
650.01	650.01	0.00	± 0.05
750.02	750.02	0.00	± 0.05
850.00	849.99	0.01	± 0.05
950.01	950.01	0.00	± 0.05
1000.02	1000.02	0.00	± 0.05
1050.02	1050.01	0.01	± 0.05
1100.01	1100.00	0.01	± 0.05

\*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.

### Equipment used in calibration

Type	Serial number	Calibration date	Certificate number
PPC4	439	2011-10-21	1500134855

### Uncertainty ( 95 % confidence level, k=2)

Pressure ± 0.07 hPa

### Ambient Conditions

Humidity 41 %RH ± 5 %RH  
Temperature 22 °C ± 1 °C  
Pressure 1001 hPa ± 1 hPa

Approved By

Technical Operator