

## CALIBRATION CERTIFICATE

Before adjustment

**Customer** Campbell Scientific  
**Instrument** PTB110 Barometer  
**Serial number** H0160069  
**Manufacturer** Vaisala Oyj, Finland  
**Calibration date** 15th August 2016  
**Calibration due** 15th August 2017  
**Test procedure** doc210434A

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.

### Calibration results

Reference pressure hPa	Calculated pressure hPa	Observed voltage Vdc	Correction* hPa	Uncertainty** hPa
510.0	509.7	0.084	0.3	± 0.15
610.1	609.9	0.918	0.2	± 0.15
700.1	699.9	1.668	0.2	± 0.15
810.4	810.2	2.586	0.2	± 0.15
900.1	900.0	3.334	0.1	± 0.15
1000.2	1000.1	4.168	0.1	± 0.15
1060.2	1060.2	4.668	0.0	± 0.15
1100.2	1100.1	5.001	0.1	± 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
AT 34970A	MY41007264	2014-08-21	702254
Vaisala PTB220	X1260001	2016-03-17	160317-PTB220-X1260001

### Ambient conditions

Humidity: 38 ± 5 %RH

Temperature: 24 ± 2 °C

Pressure: 1019 ± 20 hPa

  
 Paul Joyce

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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	510.0	0.085	0.1	± 0.15
610.1	610.1	0.918	0.0	± 0.15
700.2	700.1	1.668	0.1	± 0.15
810.1	810.1	2.584	0.0	± 0.15
900.4	900.3	3.336	0.1	± 0.15
1000.2	1000.2	4.168	0.0	± 0.15
1060.3	1060.3	4.669	0.0	± 0.15
1100.1	1100.0	5.001	0.1	± 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.

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Vaisala PTB220	X1260001	2016-03-17	160317-PTB220-X1260001

### Ambient conditions

Humidity: 38 ± 5 %RH

Temperature: 24 ± 2 °C

Pressure: 1018 ± 20 hPa

  
Paul Joyce

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