



CALIBRATION CERTIFICATE

Before adjustment

Instrument PTB220 Class A Digital Barometer
Serial number Y0620001
Manufacturer Vaisala Oyj, Finland
Calibration date 14th October 2011

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 | 500.08 | -0.07 |
| 550.02 | 550.08 | -0.06 |
| 650.01 | 650.07 | -0.06 |
| 750.04 | 750.09 | -0.05 |
| 850.03 | 850.07 | -0.04 |
| 950.00 | 950.03 | -0.03 |
| 1000.01 | 1000.04 | -0.03 |
| 1050.01 | 1050.04 | -0.03 |
| 1100.00 | 1100.01 | -0.01 |

*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 | 3336095 | 2011-04-08 | K008-U00990 |

Uncertainty (95 % confidence level, k=2)

Pressure ± 0.07 hPa

Ambient Conditions

Humidity 40 %RH \pm 5 %RH
Temperature 22 °C \pm 1 °C
Pressure 997 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 | 500.01 | 0.00 | ± 0.05 |
| 550.03 | 550.02 | 0.01 | ± 0.05 |
| 650.02 | 650.02 | 0.00 | ± 0.05 |
| 750.02 | 750.02 | 0.00 | ± 0.05 |
| 850.01 | 850.01 | 0.00 | ± 0.05 |
| 950.01 | 950.01 | 0.00 | ± 0.05 |
| 1000.01 | 1000.01 | 0.00 | ± 0.05 |
| 1050.03 | 1050.02 | 0.01 | ± 0.05 |
| 1100.01 | 1100.01 | 0.00 | ± 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 | 3336095 | 2011-04-08 | K008-U00990 |

Uncertainty (95 % confidence level, k=2)

Pressure ± 0.07 hPa

Ambient Conditions

Humidity 38 %RH ± 5 %RH
Temperature 22 °C ± 1 °C
Pressure 993 hPa ± 1 hPa

Approved By

Technical Operator