

CALIBRATION CERTIFICATE

Instrument PTB110 Barometer
Serial number W1212334
Manufacturer Vaisala Oyj, Finland
Calibration date 19th March 2024

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

The measurement results are traceable to the international system of units (SI) through national metrology institutes (NIST USA, VTT MIKES Finland, or equivalent) or via ISO/IEC 17025 accredited calibration laboratories.

Calibration results

| Reference pressure hPa | Calculated pressure hPa | Observed voltage Vdc | Correction* hPa | Uncertainty** hPa |
|---------------------------|----------------------------|-------------------------|--------------------|----------------------|
| 510.1 | 510.0 | 0.042 | 0.1 | ± 0.15 |
| 610.3 | 610.3 | 0.460 | 0.0 | ± 0.15 |
| 700.3 | 700.3 | 0.835 | 0.0 | ± 0.15 |
| 810.1 | 810.1 | 1.292 | 0.0 | ± 0.15 |
| 900.0 | 900.0 | 1.667 | 0.0 | ± 0.15 |
| 999.9 | 999.9 | 2.083 | 0.0 | ± 0.15 |
| 1059.9 | 1059.9 | 2.333 | 0.0 | ± 0.15 |
| 1100.0 | 1100.0 | 2.500 | 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 calibration

| Type | Serial number | Calibration date | Certificate number |
|----------|---------------|------------------|--------------------|
| HP34970A | EM 13990 | 2023-09-18 | 4166425-1 |
| PTB220 | PA 14019 | 2023-06-19 | K008-G03703 |

Ambient conditions

Humidity: 37 ± 5 %RH

Temperature: 22 ± 2 °C

Pressure: 1021 ± 20 hPa

Technician