

CALIBRATION SHEET

Instrument WXTPTU
Serial number K5070051
Manufacturer Vaisala Oyj, Finland
Test date 19th January 2015

This test report certifies that the instrument was thoroughly tested and inspected, and found to meet its published test limits when it was shipped from Vaisala.

Calibration results

Test phase of calibration process	Reference value	Observed value	Error*	Uncertainty**
Pressure	1075.5 hPa	1075.5 hPa	0.0 hPa	± 0.4 hPa
Pressure	900.1 hPa	900.2 hPa	0.1 hPa	± 0.4 hPa
Pressure	797.7 hPa	797.7 hPa	0.0 hPa	± 0.4 hPa
Pressure	599.5 hPa	599.4 hPa	-0.1 hPa	± 0.4 hPa
Temperature	59.7 °C	59.7 °C	0.0 °C	± 0.2 °C
Temperature	24.8 °C	24.8 °C	0.0 °C	± 0.2 °C
Temperature	-5.7 °C	-5.7 °C	0.0 °C	± 0.2 °C
Temperature	-32.5 °C	-32.5 °C	0.0 °C	± 0.2 °C
Temperature	-52.0 °C	-52.0 °C	0.0 °C	± 0.2 °C
Relative humidity	30.6 %RH	30.6 %RH	0.0 %RH	± 2 %RH
Relative humidity	59.4 %RH	59.4 %RH	0.0 %RH	± 2 %RH
Relative humidity	92.1 %RH	92.1 %RH	0.0 %RH	± 3 %RH

*The test points for error values are polynomial fitting curve fitting points.

**The calibration uncertainty given at 95 % confidence level, k = 2

Traceability

The working standards for pressure and temperature are calibrated at Vaisala Measurement Standards Laboratory (MSL) by using MSL working standards traceable to National Institute of Standards and Technology (NIST, USA). The relative humidity values are calculated from measured temperature and dew-point temperature values. The dew-point working standards are traceable to the Finnish National Humidity Laboratory (MIKES).

Signature



Technician

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