

STBD

CALIBRATION SHEET

Instrument WXTPTU
Serial number N2340037
Manufacturer Vaisala Oyj, Finland
Test date 30th June 2017

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	1084.4 hPa	1084.4 hPa	0.0 hPa	± 0.4 hPa
Pressure	897.4 hPa	897.4 hPa	0.0 hPa	± 0.4 hPa
Pressure	796.1 hPa	796.1 hPa	0.0 hPa	± 0.4 hPa
Pressure	598.9 hPa	598.9 hPa	0.0 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	-5.8 °C	-5.8 °C	0.0 °C	± 0.2 °C
Temperature	-32.4 °C	-32.4 °C	0.0 °C	± 0.2 °C
Temperature	-51.9 °C	-51.9 °C	0.0 °C	± 0.2 °C
Relative humidity	29.7 %RH	29.7 %RH	0.0 %RH	± 2 %RH
Relative humidity	57.8 %RH	57.8 %RH	0.0 %RH	± 2 %RH
Relative humidity	91.1 %RH	91.1 %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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