

installed in S/N D0220001

AMS
9 Feb 2016

Calibration sheet no. H31-15220028

CALIBRATION SHEET

Instrument WXTPTU
 Serial number L2110044
 Manufacturer Vaisala Oyj, Finland
 Test date 25th May 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	1080.1 hPa	1080.1 hPa	0.0 hPa	± 0.4 hPa
Pressure	896.4 hPa	896.4 hPa	0.0 hPa	± 0.4 hPa
Pressure	797.6 hPa	797.6 hPa	0.0 hPa	± 0.4 hPa
Pressure	602.2 hPa	602.2 hPa	0.0 hPa	± 0.4 hPa
Temperature	59.7 °C	59.7 °C	0.0 °C	± 0.2 °C
Temperature	24.9 °C	24.9 °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	-51.8 °C	-51.9 °C	-0.1 °C	± 0.2 °C
Relative humidity	29.7 %RH	29.7 %RH	0.0 %RH	± 2 %RH
Relative humidity	59.1 %RH	59.1 %RH	0.0 %RH	± 2 %RH
Relative humidity	91.6 %RH	91.6 %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