

CALIBRATION SHEET

Instrument WXTPTU
Serial number J0850029
Manufacturer Vaisala Oyj, Finland
Test date 25th February 2013

*PTU installed in
WXT 520 BE2320003
April 22, 2013*

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.

*WXT 520 installed
Port side on Atlantic*

Calibration results

Test phase of calibration process	Reference value	Observed value	Error*	Uncertainty**
Pressure	1083.6 hPa	1083.5 hPa	-0.1 hPa	± 0.4 hPa
Pressure	898.4 hPa	898.6 hPa	0.2 hPa	± 0.4 hPa
Pressure	801.7 hPa	801.8 hPa	0.1 hPa	± 0.4 hPa
Pressure	600.6 hPa	600.5 hPa	-0.1 hPa	± 0.4 hPa
Temperature	59.3 °C	59.3 °C	0.0 °C	± 0.2 °C
Temperature	24.6 °C	24.6 °C	0.0 °C	± 0.2 °C
Temperature	-6.1 °C	-6.1 °C	0.0 °C	± 0.2 °C
Temperature	-32.9 °C	-32.9 °C	0.0 °C	± 0.2 °C
Temperature	-52.0 °C	-52.0 °C	0.0 °C	± 0.2 °C
Relative humidity	29.4 %RH	29.4 %RH	0.0 %RH	± 2 %RH
Relative humidity	58.9 %RH	58.9 %RH	0.0 %RH	± 2 %RH
Relative humidity	93.1 %RH	93.1 %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