

CALIBRATION SHEET

Instrument WXTPTU
Serial number J0850027
Manufacturer Vaisala Oyj, Finland
Test date 25th February 2013

*PTU installed in
WXT 520 DC 214 0003
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 on
STBD side, ATLANTIS*

Calibration results

| Test phase of calibration process | Reference value | Observed value | Error* | Uncertainty** |
|-----------------------------------|-----------------|----------------|---------|---------------|
| Pressure | 1083.5 hPa | 1083.5 hPa | 0.0 hPa | ± 0.4 hPa |
| Pressure | 898.3 hPa | 898.4 hPa | 0.1 hPa | ± 0.4 hPa |
| Pressure | 801.6 hPa | 801.6 hPa | 0.0 hPa | ± 0.4 hPa |
| Pressure | 600.5 hPa | 600.5 hPa | 0.0 hPa | ± 0.4 hPa |
| Temperature | 59.3 °C | 59.3 °C | 0.0 °C | ± 0.2 °C |
| Temperature | 24.6 °C | 24.7 °C | 0.1 °C | ± 0.2 °C |
| Temperature | -6.1 °C | -6.2 °C | -0.1 °C | ± 0.2 °C |
| Temperature | -33.0 °C | -32.9 °C | 0.1 °C | ± 0.2 °C |
| Temperature | -52.0 °C | -52.0 °C | 0.0 °C | ± 0.2 °C |
| Relative humidity | 29.3 %RH | 29.3 %RH | 0.0 %RH | ± 2 %RH |
| Relative humidity | 58.9 %RH | 58.9 %RH | 0.0 %RH | ± 2 %RH |
| Relative humidity | 93.2 %RH | 93.2 %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