CALIBRATION CERTIFICATE

Instrument Order code Serial number Pressure, Humidity and Temperature Transmitter PTU307

PTU300 71E10B0AAAA1A4A1EBB0B4A

J1620009

Manufacturer Calibration date

Vaisala Oyj, Finland 17th April 2013

The above instrument was calibrated by comparing the readings of the instrument to working standards of the manufacturer. The reference humidity was calculated from dewpoint temperature and temperature readings with the exception of the driest condition that was measured as relative humidity. Dewpoint temperature was measured with a 373 LHX dewpoint meter. Temperature and relative humidity were measured with two factory working standards. At the time of shipment, the instrument described above met its operating specifications.

The 373 LHX dewpoint meter has been calibrated at Centre for metrology and accreditation (MIKES) by using a MIKES working standard traceable to National Institute of Standards and Technology (NIST). The temperature readings of the factory working standards have been calibrated at an ISO/IEC 17025 accredited calibration laboratory (FINAS), Vaisala Measurement Standards Laboratory (MSL) by using MSL working standards traceable to NIST. The relative humidity readings of the factory working standards have been calibrated at the Vaisala factory by using a 373 LHX dewpoint meter.

Humidity calibration results

Reference humidity	Reference temperature	Observed humidity	Observed probe temperature	Additional probe temperature	Humidity difference	Permissible difference
%RH	°C	%RH	°C	°C	%RH	%RH
0.0	+ 21.96	+ 0.1	-	+ 22.00	+ 0.1	±1.0
+ 12.7	+ 21.96	+ 13.2	-	+ 21.99	+ 0.5	± 1.0
+ 33.5	+ 21.94	+ 34.0	-	+ 21.97	+ 0.5	± 1.0
+ 54.6	+ 21.94	+ 55.1	-	+ 21.97	+ 0.5	± 1.0
+ 75.5	+ 21.95	+ 75.8	-	+ 21.97	+ 0.3	± 1.0
+ 95.2	+ 21.97	+ 96.2		+ 21.98	+ 1.0	± 1.7

Temperature calibration results

Reference temperature	Observed probe temperature	Temperature difference	Additional probe temperature	Temperature difference	Permissible difference
°C	°C	°C	°C	°C	°C
+ 21.95	-	-	+ 21.97	+ 0.02	± 0.10

Equipment used in calibration

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Type	Serial number	Calibration date	Certificate number
MBW 373LHX	10-017	2013-03-07	M-13H019
PTU307 / T	B2850023	2013-02-13	K008-W00153
HMT337 / T	E0840009	2013-01-04	K008-W00033
PTU307 / RH	B2850023	2013-02-14	H45-13071001
HMT337 / RH	E0840009	2013-02-14	H45-13071002

Uncertainties (95 % confidence level, k=2)

Humidity ± 0.6%RH @ 0...40%RH, ± 1.0%RH @ 40...97%RH

Temperature ± 0.10 °C.

Ambient conditions / Humidity 45 ± 5%RH, Temperature + 23 ± 1 °C, Pressure 1007 ± 1 hPa.

Technician

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Doc212778-E

Certificate report no. H61-13160051

CALIBRATION CERTIFICATE

Instrument

PTU300(500-1100) Digital Barometer

Serial number

J1620009 Vaisala Oyj, Finland

Manufacturer Calibration date

18th April 2013

The above instrument was calibrated by comparing the readings of the instrument to the factory working standard of Vaisala.

The pressure readings of the factory working standard have been calibrated at an ISO/IEC 17025 accredited calibration laboratory (FINAS), Vaisala Measurement Standards Laboratory (MSL), by using MSL working standards traceable to NIST.

Calibration results

Reference hPa	Observed hPa	Correction* hPa	Acceptance limit hPa	
500.03	500.03	0.00	± 0.05	
550.03	550.04	-0.01	± 0.05	
650.01	650.01	0.00	± 0.05	
750.01	750.00	0.01	± 0.05	
850.00	850.00	0.00	± 0.05	
950.00	950.00	0.00	± 0.05	
1000.00	1000.00	0.00	± 0.05	
1050.00	1050.00	0.00	± 0.05	
1100.00	1100.00	0.00	± 0.05	

^{*}To obtain the true pressure, add the correction to the barometer reading. Interpolated corrections may be used at intermediate readings of the scale of the barometer.

Equipment used in calibration

Туре DHI PPC3 Serial number

Calibration date 2013-02-01

Certificate number K008-W00174

Uncertainty (95 % confidence level, k=2)

Pressure

± 0.07 hPa

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Ambient Conditions

Humidity Pressure 41 %RH ± 5 %RH

Temperature

22 °C ± 1 °C 1005 hPa ± 1 hPa

Technician