

CALIBRATION CERTIFICATE

Instrument Humidity and Temperature Transmitter HMT333
Order code HMT330 3F0A002BCAC100A04AABAA1
Serial number A4650017
Manufacturer Vaisala Oyj, Finland
Calibration date 25th October 2012

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 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 %RH	Reference temperature °C	Observed humidity %RH	Observed probe temperature °C	Additional probe temperature °C	Humidity difference %RH	Permissible difference %RH
+ 0.1	+ 21.94	+ 0.1	+ 21.93	-	0.0	±1.0
+ 12.7	+ 21.94	+ 12.3	+ 21.94	-	- 0.4	± 1.0
+ 33.2	+ 21.95	+ 32.8	+ 21.95	-	- 0.4	± 1.0
+ 54.1	+ 21.95	+ 53.9	+ 21.95	-	- 0.2	± 1.0
+ 74.8	+ 21.96	+ 74.6	+ 21.96	-	- 0.2	± 1.0
+ 94.4	+ 21.98	+ 94.4	+ 21.98	-	0.0	± 1.7

Temperature calibration results

Reference temperature °C	Observed probe temperature °C	Temperature difference °C	Additional probe temperature °C	Temperature difference °C	Permissible difference °C
+ 21.96	+ 21.96	0.00	-	-	± 0.10

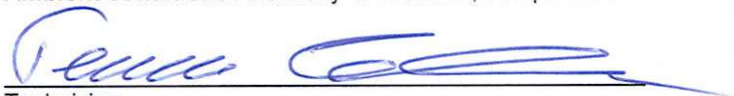
Equipment used in calibration

Type	Serial number	Calibration date	Certificate number
MBW 373LHX	10-017	2012-01-26	M-11H094
PTU303 / T	H0730004	2012-02-24	K008-V00379
HMT337 / T	E4420203	2012-01-13	K008-V00044
PTU303 / RH	H0730004	2012-07-19	H35-12291001
HMT337 / RH	E4420203	2012-07-19	H35-12291002

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 47 ± 5%RH, Temperature + 22 ± 1 °C, Pressure 996 ± 1 hPa.


 Technician

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