

CALIBRATION CERTIFICATE

Instrument Order code HMP110 A15A0C3B0 J2740001

Serial Number Manufacturer

Vaisala Oyj, Finland

Calibration date

4th July 2013

The above instrument was calibrated by comparing the relative humidity readings to two HMT337 factory working standards. At the time of shipment, the instrument described above met its operating specifications.

The relative humidity readings of the two HMT337 factory working standards have been calibrated at the Vaisala factory by using MBW 373 dewpoint meter. MBW 373 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 two HMT337 factory working standards have been calibrated at an ISO/IEC 17025 accredited calibration laboratory (FINAS), Vaisala Measurement Standards Laboratory (MSL) by using MSI, working standards traceable to NIST.

Analog output channel 1 calibration results

Output forced to V	Observed output	Difference	Permissible difference
	V	V	V
1.000	1.000	0.000	±0.002

Analog output channel 2 calibration results

Output forced to	Observed output	Difference	Permissible difference
V	V	V	V
1.000	1.000	0.000	

Humidity calibration results

Reference humidity %RH	Observed humidity %RH	Humidity difference %RH	Reference temperature °C	Reference dewpoint °C	Observed dewpoint °C	Permissible difference %RH
87.09	87.40	0.31				±1.5
50.40	50.19	-0.21	23.17	12.31	12.27	±1.5
0.80	0.84	0.04				±1.5

Temperature calibration results

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Observed probe temperature	Reference temperature	Temperature difference	Permissible difference
°C	<u>°</u> C	°C	<u> ~C</u>
23.21	23.17	0.04	±0.2

Equipment used in calibration

Туре	Serial number	Calibration date	Certificate number	
HMT337 / U	G0810114	2013-6-3	H55-13230001	
HMT337 / T	G0810114	2012-10-29	K008-V01675	
HMT337 / U	G0810115	2013-6-3	H55-13230002	
HMT337 / T	G0810115	2012-10-29	K008-V01676	
HP E3632A	MY40000390	2011-08-29	K004-11S487	
Agilent 34970A	US37031760	2013-03-21	K004-13S143	

Uncertainties (95 % confidence level, k=2)

Humidity ±1.5 %RH @ 0...90 %RH

Temperature ±0.20 °C

Ambient conditions / Humidity 41 ±5 %RH, Temperature 23 ±1 °C, Pressure 1017 ±1 hPa.

Technician

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