



# AKKREDITOINTITODISTUS

ACCREDITATION CERTIFICATE

**VAISALA OYJ**  
**MITTANORMAALILABORATORIO**  
**VANTAA**

**K008**

on FINAS-akkreditointipalvelun akkreditoima kalibrointilaboratorio K008.  
Akkreditointipäätös on voimassa 8.5.2013 asti.  
Tiedot akkreditoinnin pätevyysalueesta ja voimassaolosta on esitetty  
verkkosivuilla [www.finas.fi](http://www.finas.fi).

is calibration laboratory No. K008 accredited by FINAS Finnish Accreditation Service.  
The accreditation decision is valid until 8.5.2013.  
Information about the scope and the current status of the accreditation is available  
on the web page [www.finas.fi](http://www.finas.fi).

**Toimielin täyttää seuraavan standardin vaatimukset:**  
The above body conforms to the requirements of the following standard:

**SFS-EN ISO/IEC 17025:2005**

**Espoo 8.5.2009**

  
**Leena Tikkanen**

  
**Seppo Lehto**

## CALIBRATION CERTIFICATE

**Instrument** HM34C Humidity and temperature meter  
**Serial number** G0740002  
**Manufacturer** Vaisala Oyj, Finland  
**Calibration date** 17th February 2011  
**Test procedure**

The above instrument was calibrated by comparing the relative humidity and temperature readings to two HMP233 factory working standards. At the time of shipment, the instrument described above met its operating specifications.

The relative humidity readings of the two HMP233 factory working standards have been calibrated at the Vaisala factory by using Hygro M-3 dewpoint meter. Hygro M-3 dewpoint meter has been calibrated at the NIST laboratories by using the NIST primary standard. The temperature readings of the two HMP233 factory working standards have been calibrated at Vaisala Measurement Standards Laboratory (MSL) by using the MSL working standard traceable to the NIST. MSL has been accredited by the FINAS according to the ISO/IEC 17025 (K008).

### Calibration results

Reference humidity* %RH	Observed humidity %RH	Difference %RH	Permissible difference %RH
0.5	0.5	0.0	± 2.0
45.6	45.1	- 0.5	± 2.0
71.4	71.3	- 0.1	± 2.0
Reference temperature*	Observed temperature °C	Difference °C	Permissible difference °C
23.61	23.70	+ 0.09	0.2

\*Average of two references

### Equipment used in calibration

Type	Serial number	Calibration date	Certificate number
Vaisala HMT337	D2350020	2010-12-21	H06-10510070
Vaisala HMT337	D2350026	2010-12-21	H06-10510071
Vaisala HMT337	D2350020	2010-12-08	K008-T02443
Vaisala HMT337	D2350026	2010-12-08	K008-T02441
HYGRO M-3	361095	2010-07-07	M-10H039

### Uncertainties ( 95 % confidence level, k=2)

Temperature ± 0.13 °C.  
 Ambient conditions / Humidity 36 ± 5%RH, Temperature 23 ± 1 °C, Pressure 1030 ± 1 hPa.

  
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 Technician

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