



Certificate of Calibration

Report #: 062601-U3030041
Model #: HMP 45AC
Instrument Range: 0 to 100%RH

RMA#: 95-26487

Calibration Date: 06/26/01
Serial #: U3030041
Calibration Procedure: 11603019 Rev. F
Recommended calibration due date: 06/26/02

Customer: CAMPBELL SCIENTIFIC
City, State: LOGAN, UT

This unit was calibrated by adjusting its reading at 0% against dry nitrogen and at 75% against reference humidity and temperature instrument, Vaisala model HMP233. Additional instrument verification checkpoints were made against HMP233 reference at 11%RH and 97%RH. Calibration and instrument verification sequences utilize dry nitrogen and a set of controlled aqueous salt solutions Vaisala model HMK13B. Laboratory ambient conditions are maintained at a temperature of 22 °C ± 1 °C with relative humidity level of 50%RH ± 5%RH. The calibration uncertainty is presented at 95% confidence level, k=2. The calibration uncertainty is ±0.6%RH.

Calibration Data (As Found)

Out of Tolerance? Y N

Temperature Calibration (°C)

Reference	Unit Under Test	Error	Tolerance
N/A	N/A	N/A	± 0.20 °C

Humidity Calibration (%RH)

Reference	Unit Under Test	Error	Tolerance
+ 0.10	+ 0.70	+ 0.60	± 2.00
+ 11.30	+ 13.20	+ 1.90	± 2.00
+ 75.50	+ 91.90	+ 16.40	± 2.00
+ 97.60	+ 117.50	+ 19.90	± 3.00

Calibration Data (As Left)

Temperature Calibration (°C)

Reference	Unit Under Test	Error	Tolerance
+ 22.91	+ 22.90	- 0.01	± 0.20 °C

Humidity Calibration (%RH)

Reference	Unit Under Test	Error	Tolerance
+ 0.10	+ 0.70	+ 0.60	± 2.00
+ 11.30	+ 11.30	0.00	± 2.00
+ 75.50	+ 75.50	0.00	± 2.00
+ 97.60	+ 97.20	- 0.40	± 3.00

The results of this calibration is traceable to the National Institute of Standards and Technology through NIST Test Report Number TN 264532 dated 02-Nov-00. Vaisala's calibration system has been established to meet the requirements of ANSI/NC SL Z540-1-1994. This certificate can not be reproduced except in full, without the expressed written consent of Vaisala. ISO 9002 certified.

Calibration Equipment Used: Workstation 1

Model	Serial Number	Calibrate Date	Due Date
Power Supply	TW14949	27-Nov-00	27-Nov-02
Fluke 45	6565014	01-Sep-00	01-Sep-01
HMK13B	T472	27-Mar-01	27-Sep-01
HMP233	V4210031	30-Apr-01	30-Jul-01

Ambient Conditions
Humidity: 54.08%RH
Temperature: 22.05 °C

Technical Operator
Chang Pyun

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