

Report #: 050101-W0510026

RMA #: 95-25718

Calibration Date: 05/01/01

Model #: HMP 45AC

Serial #: W0510026

Instrument Range: 0 to 100%RH

Calibration Procedure: 11603019 Rev. F

Recommended calibration due date: 05/01/02

Customer: CAMPBELL SCIENTIFIC, INC.

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 were 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 Left)

Out of Tolerance? Y (N)

Temperature Calibration (°C)

Reference	Unit Under Test	Error	Tolerance
+ 21.96	+ 22.00	+ 0.04	± 0.20 °C

Humidity Calibration (%RH)


Reference	Unit Under Test	Error	Tolerance
+ 0.10	+ 0.10	0.00	± 2.00
+ 11.30	+ 11.40	+ 0.10	± 2.00
+ 75.50	+ 75.50	0.00	± 2.00
+ 97.60	+ 97.50	- 0.10	± 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/NCS 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	08-Feb-01	08-May-01

Ambient Conditions
 Humidity: 48.12%RH
 Temperature: 70.96 °C



Technical Operator
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