

Report #: 030701-W0730035

P.O. #: 54818

Calibration Date: 03/07/01

Model #: HMP 45AC

S.O. #: 71548

Serial #: W0730035

Instrument Range: 0 to 100%RH

Calibration Procedure: 11603019 Rev. F

Recommended calibration due date: 03/07/02

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 instrument and temperature, 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

Temperature Calibration (°C)

Reference	Unit Under Test	Error	Tolerance
+ 21.88	+ 21.80	- 0.08	± 0.20 °C

Humidity Calibration (%RH)

Reference	Unit Under Test	Error	Tolerance
+ 0.10	+ 0.10	0.00	± 2.00
+ 11.30	+ 11.10	- 0.20	± 2.00
+ 75.50	+ 75.50	0.00	± 2.00
+ 97.60	+ 95.80	- 1.80	± 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 4

Equipment	Asset No.	Serial No.	Cal. Date	Due Date
Power Supply	3011-0178	21609063	27-Nov-00	27-Nov-02
Fluke 45	1011-0247	7519018	31-Jan-01	31-Jan-02
HMK13B	3011-0037	500005	19-Sep-00	19-Mar-01
HMP233	3011-0223	V4210032	14-Feb-01	14-May-01

Ambient Conditions
 Humidity: 50.5%RH
 Temperature: 22.2° C



Technical Operator
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Laboratory Manager
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