



Certificate of Calibration

Report #: 100903-U3030046 RMA #: 95-37537

Calibration Date: Oct-09-2003

Model #: HMP 45

Serial #: U3030046

Instrument Range: 0 to 100%RH

Calibration Procedure: 11603100

Recommended Calibration Due Date: Oct-09-2004

Customer: UNIVERSITY OF CALIFORNIA AT BERKELEY

City, State: BERKELEY, CA


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 33%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.

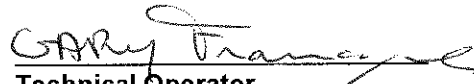
Calibration Data (As Found)			
Out of Tolerance: No			
Temperature Calibration, °C			
Reference	Unit Under Test	Error	± Tolerance, °C
22.48	22.50	0.02	0.20
Humidity Calibration, %RH			
Reference	Unit Under Test	Error	± Tolerance, %
0.10	-0.20	-0.30	2.00
11.30	11.00	-0.30	2.00
32.60	32.40	-0.20	2.00
75.50	73.70	-1.80	2.00
Calibration Data (As Left)			
Out of Tolerance: No			
Temperature Calibration, °C			
Reference	Unit Under Test	Error	± Tolerance, °C
22.54	22.60	0.06	0.20
Humidity Calibration, %RH			
Reference	Unit Under Test	Error	± Tolerance, %
0.10	0.10	0.00	2.00
11.30	11.70	0.40	2.00
32.60	33.50	0.90	2.00
75.50	75.50	0.00	2.00

The results of this calibration are traceable to the National Institute of Standards and Technology through NIST Test Report Number TN267908-03, dated Oct. 22, 2002. Vaisala's calibration system has been established to meet the requirements of ANSI/NCSS Z540-1-1994. This certificate can not be reproduced, except in full, without the expressed written consent of Vaisala. ISO 9001:2000 certified.

Calibration Equipment Used: Workstation 7A			
Model Number	Serial Number	Calibration Date	Due Date
Power Supply	L0848	Nov. 25, 2002	Nov. 25, 2004
Flyuke 45	7405019	Aug. 18, 2003	Aug. 18, 2004
HMK13B	S4840001	Aug. 13, 2003	Feb. 13, 2004
HMP233	V4310010	Jul. 9, 2003	Oct. 9, 2003

Ambient Conditions	
Temperature:	22.50 °C
Humidity:	50.60 %RH


Approved By


Technical Operator
J. Gary Francisque

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