

Report #: 031912-G0820116-RH **SR #:** 55419
Model #: HMT337

Calibration Date: Mar-19-2012
Serial #: G0820116

Instrument Type: Humidity Transmitter
 Instrument Range: 0 to 100%, RH
 Instrument Range: -70 to +180 °C, T

Ch 1: 0...5 V, 0...100 %RH
 Ch 2: 0...5 V, -40...+180 °C, T

Calibration Procedure: 11603100
 Recommended Calibration Due Date: Mar-19-2013

Customer: OREGON STATE UNIVERSITY
City, State: CORVALLIS, OR USA

The test chamber used to produce the humidity and temperature for the calibration is a Thunder 2500 Two-Pressure Generator. If 0% RH is presented on the certificate, it is generated by using a dry-air line. The dry-air line is monitored with DMP248 reference instruments. The Unit Under Test is allowed at least 1 hour to stabilize prior to recording a measurement. Laboratory ambient conditions are humidity and temperature controlled. The calibration uncertainty is presented at 95% confidence level, k=2. The standard uncertainty of the measurement has been determined in accordance with U.S. Guide to the Expression of Uncertainty in Measurement.

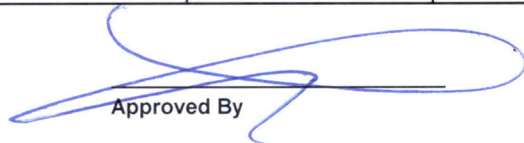
Calibration Data (As Left)				
Temperature Calibration, °C				
Reference	Unit Under Test	Error	± Tolerance, °C	± Uncertainty, °C
20.10	20.10	0.00	0.20	0.10
Humidity Calibration, %RH				
Reference	Unit Under Test	Error	± Tolerance, %	± Uncertainty %
0.03	0.00	-0.03	1.00	0.50
11.10	11.60	0.50	1.00	0.42
33.10	33.50	0.40	1.00	0.60
75.10	75.80	0.70	1.00	0.79
94.12	94.70	0.58	1.70	0.72

Problem Noted: No as found data were available, the temperature cable was not soldered to the circuit board.
Action Taken: The temperature cable was re-soldered to the circuit board. The unit was adjusted and calibrated.

The results of this calibration are related only to the items being calibrated at the time of calibration, and are traceable to the National Institute of Standards and Technology. Vaisala's calibration system has been established to meet the requirements of ANSI/NCSL Z540-1-1994. This certificate can not be reproduced, except in full, without the expressed written consent of Vaisala. The certificate was established to comply with the requirements of ISO/IEC17025. Vaisala is ISO 9001:2008 certified.

Calibration Equipment Used: Thunder - CSL			
Model Number	Serial Number	Calibration Date	Due Date
DMP248	Z3230008	Feb. 13, 2012	Feb. 13, 2013
Thunder 2500ST	0504485	Dec. 27, 2011	Jun. 27, 2012

Ambient Conditions	
Temperature:	22.47 °C
Humidity:	49.19 %RH


 Approved By


 Technical Operator
 Jhonson François