

Report #: 061212-G0820117-RH SR #: 61408

Calibration Date: Jun-12-2012

Model #: HMT337

Serial #: G0820117

Instrument Type: Humidity Transmitter

Ch 1: 0...5 V, 0...100 %RH

Calibration Procedure: 11603100

Instrument Range: 0 to 100%, RH

Ch 2: 0...5 V, -40...180 °C, T

Recommended Calibration Due Date: Jun-12-2013

Instrument Range: -70 to +180 °C, T

Customer: OREGON STATE UNIVERSITY

City, State: CORVALLIS, OR

This unit was calibrated by adjusting its reading at 0% against a dry-air line and at 75% against reference humidity and temperature instrument, Vaisala model HMT333. Additional instrument verification checkpoints were made against HMT333 reference at 11%RH and 33%RH. Calibration and instrument verification sequences utilize a dry-air line and a set of controlled aqueous salt solutions Vaisala model HMK13B. 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
22.14	22.10	-0.04	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	11.50	0.40	1.00	0.42
33.19	33.30	0.11	1.00	0.60
75.07	75.50	0.43	1.00	0.79

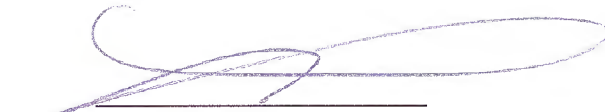
Problem Noted: No "As Found" data. The probe cable was cut by the customer.

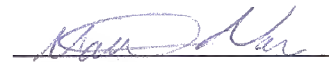
Action Taken: Installed a new probe assembly and filter. The unit was calibrated.

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/NC SL 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 - Cal Lab			
Model Number	Serial Number	Calibration Date	Due Date
Thunder 2500ST	0105299	Feb. 2, 2012	Aug. 2, 2012
DMP248	Z3230008	Feb. 13, 2012	Feb. 13, 2013

Ambient Conditions	
Temperature:	22.00 °C
Humidity:	49.40 %RH


Approved By


Technical Operator
Matthew Nocivelli