



SOUTHWEST RESEARCH INSTITUTE®

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Certificate #

0972-01

Certificate of Calibration

Submitted By: DIV20
Address: B57
Contact: DON BANNON
Manufacturer Model: VAISALA HM34C
Description: HUMIDITY/ TEMPERATURE METER
Serial No: X2020010
Asset No: 009456
Procedure: HUMIDITY-DEW POINT - 19 MAY 2006

Work Order: 303070921
Date Issued: Sep 12, 2006
Calibration Date: Sep 12, 2006
***Calibration Due:** Mar 12, 2007
Calibration Location: Bldg. 64
Environment: Temp. 75.0°F Hum. 45 %RH
****Data Type:** FOUND-LEFT

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 1999, ANSI/NCSL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.

*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. **Found/Left = adjustment and/or repair was not required, As Left = adjusted and/or repaired was required. The client has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance. See Remarks or attached Measurement Report with the same Work Order number for data.

Reported uncertainty calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM) and represents an expanded uncertainty with a coverage factor of k=2 to approximate a 95% confidence level.

Remarks: None

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
006404	9806123	THUNDER SCIENTIFIC	2500	HUMIDITY GENERATOR	Jun 06, 07
010692	632656	HART SCIENTIFIC	5618	PLATINUM RTD	Jan 14, 07
009414	A25788	HART SCIENTIFIC	1502A	TEMPERATURE READOUT	Jan 14, 07

Reviewed by: blt () jrg () pwc () wgn ()
Metrology Technician

Measurements by: Paul Depmore
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303070921	Mfr	Vaisala	Technician	PRD
Asset No.	009456	Model	HM34C		
Serial No.	X2020010	Type	Humidity / Temp meter	Cal Date	12-Sep-06

Remarks:

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
HUMIDITY at	%RH	%RH	%RH	%RH	%RH	Result
25 °C	35.00	35.7	0.7	2	0.59	Pass
	50.07	50.1	0.0	2	0.59	Pass
	65.00	64.9	-0.1	2	0.59	Pass
TEMPERATURE at	°C	°C	°C	°C	°C	
35% RH	20.478	20.3	-0.2	1.0	0.13	Pass
	25.110	24.9	-0.2	1.0	0.13	Pass
	29.834	29.7	-0.1	1.0	0.13	Pass

END OF REPORT