



SOUTHWEST RESEARCH INSTITUTE®

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Institute Quality Systems
Institute Calibration Laboratory
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Calibration Laboratory
Certificate #0972-01

Certificate of Calibration

Submitted By: DIV20

Address: B51

Contact: DON BANNON

Manufacturer / Model: VAISALA / HM34C

Description: HUMIDITY/ TEMPERATURE METER

Serial No: X2020010

Asset No: 009456

Procedure: TEMPERATURE, HUMIDITY, DEW-POINT - 3 APR 08

Work Order: 303082271

Date Issued: Jul 16, 2008

Calibration Date: Jul 16, 2008

***Calibration Due:** Jan 16, 2009

Calibration Location: Bldg. 64

Environment: Temp. 74.0°F Hum. 40 %RH

****Data Type:** FOUND-LEFT

DivID/Location: N/A

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, 2005, ANSI/NCCL 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
009414	A25788	HART SCIENTIFIC	1502A	TEMPERATURE READOUT	Sep 06, 08
010692	632656	HART SCIENTIFIC	5618	RTD	Sep 06, 08
006404	9806123	THUNDER SCIENTIFIC	2500	HUMIDITY GENERATOR	May 20, 09

Reviewed by: (✓) srk () mar () wgh

Measurements by: Bob Trollinger
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303082271	Mfr	Vaisala	Technician	blt
Asset No.	009456	Model	HM34C	Cal Date	16-Jul-08
Serial No.	X2020010	Type	Humidity / Temp meter		
Remarks:					

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
HUMIDITY at	%RH	%RH	%RH	%RH	%RH	Result
	34.97	35.4	0.4	2	0.59	Pass
	49.86	49.9	0.0	2	0.59	Pass
	64.99	64.7	-0.3	2	0.59	Pass
TEMPERATURE at	°C	°C	°C	°C	°C	
	20.341	20.1	-0.2	1.0	0.13	Pass
	24.977	24.7	-0.3	1.0	0.13	Pass
	29.902	29.7	-0.2	1.0	0.13	Pass

END OF REPORT