

SOUTHWEST RESEARCH INSTITUTE®

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Institute Calibration Laboratory
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Certificate of Calibration

0972-01

Submitted By: DIV20

Address: B57
Contact: DARRELL DUNN

Manufacturer Model: FISHER SCIENTIFIC 15-166A

Description: THERMOMETER

Serial No: C96-377 **Asset No:** 004993

Procedure: TEMPERATURE, JAN/04

Work Order: 303064941

Date Issued: Jul 11, 2005

Calibration Date: Jul 11, 2005

*Calibration Due: Jan 11, 2006 Calibration Location: Bldg. 64

Environment: Temp. 71.0°F Hum. 43 %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
009137	A21208	HART SCIENTIFIC	1575	THERMOMETER	Nov 24, 05
010281	0421	HART SCIENTIFIC	5628	SPRT	Jun 24, 08

Approved by: Walt Hill

Manager

m:\a2la1.rpt Rev date March 6, 2005

Measurements by: Joe Greagrey

Metrology Technician

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Southwest Research Institute Calibration Laboratory Measurement Report

		Mfr.	Fisher-Scientific	Technician	JRG
Asset No.	004993	Model	15-166A (ASTM 1C)		
Serial No.	C96-377	Туре.	THERMOMETER	Cal Date.	11-Jul-05
Remarks:	Accuracy Re	ferecnce ANS	I Z236.1-1983		

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Temperature	°C	°C	°C	°C	°C	Result
·	-19.9	-20.2	-0.3	0.5	0.12	Pass
	0.1	0.0	-0.1	0.5	0.12	Pass
	50.0	50.0	0.0	0.5	0.12	Pass
	99.9	100.0	0.1	0.5	0.12	Pass
	149.9	149.8	-0.1	0.5	0.12	Pass
END OF REPORT						