



# SOUTHWEST RESEARCH INSTITUTE®

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## Certificate of Calibration

0972-01

**Submitted By:** DIV20  
**Address:** B57  
**Contact:** DON BANNON  
**Manufacturer Model:** FISHER SCIENTIFIC 15-166A  
**Description:** THERMOMETER  
**Serial No:** H 00-387  
**Asset No:** 008724  
**Procedure:** TEMPERATURE, JAN/04

**Work Order:** 303067441  
**Date Issued:** Jan 12, 2006  
**Calibration Date:** Jan 12, 2006  
**\*Calibration Due:** Jul 12, 2006  
**Calibration Location:** Bldg. 64  
**Environment:** Temp. 72.0°F Hum. 38 %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	Jun 19, 06

Reviewed by: blt ( ) jg (x) pwc ( ) wgh ( )

Metrology Technician

m:\a2la1.rpt Rev date August 15, 2005

Measurements by: Mike Young

Metrology Technician

Southwest Research Institute  
Calibration Laboratory  
Measurement Report

Work Order:	303067441	Mfr.	Fisher-Scientific	Technician	MSY
Asset No.	008724	Model	15-166A (ASTM 1C)		
Serial No.	H 00-387	Type.	THERMOMETER	Cal Date.	12-Jan-06
Remarks:	Accuracy Reference ANSI Z236.1-1983				

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Temperature	°C	°C	°C	°C	°C	Result
	-19.7	-19.5	0.2	0.5	0.12	Pass
	0.2	0.0	-0.2	0.5	0.12	Pass
	50.1	50.0	-0.1	0.5	0.12	Pass
	99.8	100.0	0.2	0.5	0.12	Pass
	149.9	150.2	0.3	0.5	0.12	Pass

END OF REPORT