

## SOUTHWEST RESEARCH INSTITUTE®

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0972-01

## Certificate of Calibration

Submitted By: DIV20 Address: B57

Contact: DARRELL DUNN

Manufacturer Model: FISHER SCIENTIFIC 14-983-10B

Description: THERMOMETER

**Serial No:** 183304 **Asset No:** 002470

Procedure: TEMPERATURE, JAN/04

Work Order: 303064686

Date Issued: Jun 22, 2005

Calibration Date: Jun 22, 2005 \*Calibration Due: Dec 22, 2005

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

Work Order:	303064686	Mfr.	Fisher-Scientific	Technician	JRG			
Asset No.	002470	Model	14-983-10B					
Serial No.	183304	Type.	THERMOMETER	Cal Date.	22-Jun-05			
Remarks: No accuracy is provided by manufacturer. +/- 1 Degree C resolution is used								
as the accuracy specification.								
TOTAL IMMERSION								

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left	
Temperature	°C	°C	°C	°C	°C	Result	
	-19.9	-19.5	0.4	1.0	1.2	Pass	
	0.1	0.5	0.4	1.0	1.2	Pass	
	50.0	50.5	0.5	1.0	1.2	Pass	
	99.9	100.5	0.6	1.0	1.2	Pass	
FND OF REPORT							