

SOUTHWEST RESEARCH INSTITUTE®

6220 Culebra Road, P.O. Drawer 28510 Institute Quality Systems Institute Calibration Laboratory Phone: 210-522-5215 Fax 210-522-4834



0972-01

Certificate of Calibration

Submitted By: DIV20

Address: B57

Contact: DON BANNON

Manufacturer Model: FISHER SCIENTIFIC 14-983-10B

Description: THERMOMETER, GLASS

Serial No: 0323007 **Asset No:** 002045

Procedure: THERMOMETERS, GLASS - 11 SEP 2006

Work Order: 303071030

Date Issued: Sep 20, 2006

Calibration Date: Sep 20, 2006

*Calibration Due: Sep 20, 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

١	Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
	009137	A21208	HART SCIENTIFIC	1575	SUPER THERMOMETER	Dec 22, 06
	010281	0421	HART SCIENTIFIC	5628	SPRT	Jun 24, 08

nstrument calibration record for Fisher Thermometer, Model # 14-983-10B, Serial # 0323007 (09/20/2006)

Q200610110005

Reviewed by: blt() jrg() pwc() wgh

Metrology Technician

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

Measurements by: Paul Depmore

Metrology Technician \

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Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303071030	Mfr.	Fisher-Scientific	Technician	PRD			
Asset No.	002045	Model	14-983-10B					
Serial No.	0323007	Type.	THERMOMETER	Cal Date.	20-Sep-06			
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
	-19.88	-19.1	0.8	1.0	0.58	Pass
	0.10	0.1	0.0	1.0	0.58	Pass
	49.94	50.0	0.1	1.0	0.58	Pass
	99.94	100.8	0.9	1.0	0.58	Pass
•		END O	F REPORT			