

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/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
00913	7 A21208	HART SCIENTIFIC	1575	SUPER THERMOMETER	Jun 27, 07
01028	1 0421	HART SCIENTIFIC	5628	SPRT	Nov 30, 08

Reviewed by: () wgh () srk () jrg () blt () pwc Metrology Technician m:\a2la1.rpt Rev date August 15, 2005

Measurements by: Bob Trollinger Metrology Technician

Page 1 of 1

## Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303073847	Mfr.	Fisher-Scientific		Technician	blt				
Asset No.	012612	Model	14-983-10B							
Serial No.	12612	Type.	THERMOMETER		Cal Date.	13-Apr-07				
Remarks: No accuracy is provided by manufacturer. +/- 1 Degree C resolution is used										
as the accuracy specifi	cation.									
TOTAL IMMERSION										
Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left				
Temperature	°C	°C	°C	°C	O°	Result				
•	-19.84	-20.0	-0.2	1.0	0.58	Pass				
	0.07	0.0	-0.1	1.0	0.58	Pass				
	50.01	50.5	0.5	1.0	0.58	Pass				
	99.93	100.0	0.1	1.0	0.58	Pass				
		END (	OF REPORT							

. . .