



SOUTHWEST RESEARCH INSTITUTE®

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

## **Certificate of Calibration**



Cost Center: DIV20 Mail Stop: B51 Customer: DON BANNON Manufacturer/Model: FISHER SCIENTIFIC / 15-166A Description: THERMOMETER, GLASS Serial Number: C96-816 Asset Number: 005433 Procedure: THERMOMETERS, GLASS - 11 SEP 06 Work Order: 303083910 Date Issued: 24-Oct-2008 Date Calibrated: 24-Oct-2008 \*Date Due: 24-Apr-09 \*\*Results: FOUND-LEFT Temperature: 74°F Humidity: 40 %

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 customer 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

## Standards Used

<u>Asset #</u>	<u>Manufacturer</u>	Model
009137	HART SCIENTIFIC	1575
013908	HART SCIENTIFIC	5628

Description SUPER THERMOMETER SPRT <u>Cal Date</u> 16-Jun-2008 20-Feb-2008

<u>Due Date</u> 16-Dec-2008 20-Feb-2010

Reviewed By: () srk ( ) mar ( ) wgh Laboratory Quality Manager m:\A2LA OCT 08.rpl

call Calibrated By: Bob Trollinger Metrology Technician

Page 1 of 1

## Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303083910	Mfr:	Fisher Scientific		Technician:	blt
Asset No:	005433	Model:	15-166A			
Serial No:	C96-816	Type:	Thermometer		Cal Date:	24-Oct-08
Remarks:						
Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Temperature	°C	°C	°C	°C	°C	Result
•	-20.05	-20.0	0.1	1.0	0.47	Pass
	19.90	20.0	0.1	1.0	0.47	Pass
	50.60	50.0	-0.6	1.0	0.47	Pass
	100.03	100.0	0.0	1.0	0.47	Pass
	150.06	150.1	0.0	1.0	0.47	Pass
		END (	OF REPORT			

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