

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



Calibration Laboratory Certificate #0972-01

Submitted By: DIV20 Address: B57

Contact: DON BANNON Manufacturer / Model: ERTCO / ASTM 1C

Description: THERMOMETER, GLASS

Serial No: 5283 Asset No: 011743

Procedure: THERMOMETERS, GLASS - 11 SEP 2006

Work Order: 303074750

Date Issued: Jun 5, 2007 Calibration Date: Jun 5, 2007 *Calibration Due: Jun 5, 2008

Calibration Location: Bldg. 64

Environment: Temp. 74.0°F Hum. 51 %RH

**Data Type: FOUND-LEFT

DivID/Location: N/A

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
009137	A21208	HART SCIENTIFIC	1575	SUPER THERMOMETER	Jun 27, 07
010281	0421	HART SCIENTIFIC	5628	SPRT	Nov 30, 08

Reviewed by:

Metrology Technician m:\a2la1.rpt Rev date August 15, 2005 Measurements by

Metrology Technician

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Southwest Research Institute Calibration Laboratory Measurement Report

Asset No:	011743	Model:	ASTM 1C				
Serial No:	5283	Type:	THERMOMETER	Cal Date:	05-Jun-07		
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
	·	-19.8	-20.0	-0.2	0.5	0.29	Pass
		0.1	0.0	-0.1	0.5	0.29	Pass
		50.0	50.0	0.0	0.5	0.29	Pass
		100.0	100.2	0.2	0.5	0.29	Pass
		150.1	150.0	-0.1	0.5	0.29	Pass
FND OF REPORT							