

## 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**

0972-01

Submitted By: DIV20

Address: B57

Contact: DARRELL DUNN

Manufacturer Model: ERTCO ASTM 1C
Description: THERMOMETER

**Serial No:** 4279 **Asset No:** 011676

Procedure: TEMPERATURE, JAN/04

Work Order: 303064477

Date Issued: Jun 3, 2005

Calibration Date: Jun 3, 2005

\*Calibration Due: Jun 2, 2006

Calibration Location: Bldg. 64

Environment: Temp. 71.0°F Hum. 49 %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

Ass	et No.	Serial No.	Manufacturer	Model	Description	Cal Due
009	137	A21208	HART SCIENTIFIC	1575	THERMOMETER	Nov 24, 05
010	281	0421	HART SCIENTIFIC	5628	SPRT	Jun 24, 08

Approved by: Walt Hill

Manager

m:\a2la1.rpt Rev date March 6, 2005

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Measurements by: Joe Greagrey

Metrology Technician

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## Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303064477	Mfr.	ERTCO	Technician	JRG	
Asset No.	011676	Model	ASTM 1C			
Serial No.	4279	Type.	THERMOMETER	Cal Date.	03-Jun-05	
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
		-19.9	-20.0	-0.1	0.5	0.12	Pass
		0.1	0.0	-0.1	0.5	0.12	Pass
		50.0	50.2	0.2	0.5	0.12	Pass
		100.0	100.0	0.0	0.5	0.12	Pass
		149.9	150.0	0.1	0.5	0.12	Pass
END OF REPORT							