

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: ERTCO ASTM 16 C

Description: THERMOMETER

Serial No: 3145

Asset No: 011746

Procedure: TEMPERATURE, JAN/04

Work Order: 303065156

Date Issued: Jul 25, 2005

Calibration Date: Jul 25, 2005

*Calibration Due: Jul 25, 2006

Calibration Location: Bldg. 64

Environment: Temp. 70.0°F Hum. 50 %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

Asset No.	. Serial No.	Manufacturer	Model	Description	Cal Due
009137	A21208	HART SCIENTIFIC	1575	THERMOMETER	Nov 24, 05
010281	0421	HART SCIENTIFIC	5628	SPRT	Jun 24, 08

Approved by: Walt Hill

Manager

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

Measurements by: Joe Greagrey

Metrology Technician

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Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303065156	Mfr.	ERTCO	Technician	JRG		
Asset No.	011746	Model	ASTM16C				
Serial No.	3145	Type.	THERMOMETER	Cal Date.	25-Jul-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	
	30.0	30.0	0.0	0.5	0.12	Pass	
	50.0	50.0	0.0	0.5	0.12	Pass	
	100.0	100.2	0.2	0.5	0.12	Pass	
	150.0	150.0	0.0	0.5	0.12	Pass	
	200.3	200.0	-0.3	0.5	0.12	Pass	
END OF REPORT							