

SOUTHWEST RESEARCH INSTITUTE®

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



Calibration Laboratory Certificate #0972-01

Certificate of Calibration

Submitted By: DIV20 Address: B51

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

Description: THERMOMETER, GLASS

Serial No: 4279 Asset No: 011676

Procedure: THERMOMETERS, GLASS - 11 SEP 06

Work Order: 303081678 Date Issued: Jun 27, 2008 Calibration Date: Jun 27, 2008

*Calibration Due: Jun 27, 2009 Calibration Location: Bldg. 64

Environment: Temp. 74.0°F Hum. 40 %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

Ass	set No. Serial No.	Manufacturer	Model	Description	Cal Due
009	0137 A21208	HART SCIENTIFIC	1575	SUPER THERMOMETER	Dec 16, 08
013	1908 1641	HART SCIENTIFIC	5628	SPRT	Feb 20, 10

m:\a2la1.rpt Rev date August 15, 2005

Measurements by: Bob Trollinger

Metrology Technician

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Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303081678	Mfr:	Ertco	Technician:	blt		
Asset No:	011676	Model:	ASTM 1C				
Serial No:	4279	Type:	THERMOMETER	Cal Date:	27-Jun-08		
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	
	-18.8	-19.0	-0.2	0.5	0.29	Pass	
	0.2	0.0	-0.2	0.5	0.29	Pass	
	50.1	50.1	0.0	0.5	0.29	Pass	
	100.0	100.0	0.0	0.5	0.29	Pass	
	150.2	150.0	-0.2	0.5	0.29	Pass	
END OF REPORT							