

SOUTHWEST RESEARCH INSTITUTE®

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0972-01

Certificate of Calibration

Submitted By: DIV20 Address: B57

Contact: DON BANNON
Manufacturer Model: ERTCO ASTM 1C

Description: THERMOMETER

Serial No: E98-273 **Asset No:** 007303

Procedure: TEMPERATURE, JAN/04

Work Order: 303070150 **Date Issued:** Jul 6, 2006

Calibration Date: Jul 6, 2006 *Calibration Due: Jan 6, 2007 Calibration Location: Bldg. 64

Environment: Temp. 73.0°F Hum. 40 %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

1 -						
Ā	Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
0	09137	A21208	HART SCIENTIFIC	1575	THERMOMETER	Dec 22, 06
0	10281	0421	HART SCIENTIFIC	5628	SPRT	Jun 24, 08

Reviewed by: blt () jrg

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

Asset No: 007303 Model: 15-166A (ASTM 1C) Serial No: E98-273 Type: THERMOMETER Cal Date: 0							
Serial No: E98-273 Type: THERMOMETER Cal Date: 0							
	06-Jul-06						
Remarks: Accuracy Reference ASTM E1-30A	Accuracy Reference ASTM E1-30A						

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
 Temperature	°C	°C	°C	°C	°C	Result
	-19.88	-19.7	0.2	0.5	0.29	Pass
	0.08	0.0	-0.1	0.5	0.29	Pass
	50.01	50.0	0.0	0.5	0.29	Pass
	99.96	100.0	0.0	0.5	0.29	Pass
	149.91	149.9	0.0	0.5	0.29	Pass
		END O	F REPORT			