SOUTHV R R R R R R R R	WEST RESEARCH INSTITUTE <sup>®</sup> 6220 Culebra Road, P.O. Drawer 28510 Institute Quality Systems Institute Calibration Laboratory Phone: 210-522-5215 Fax 210-522-4834 Certificate of Calibration	ACCREDITED Calibration Laboratory Certificate #0972-01
Submitted By: DIV20	Work Order: 303	081682
Address: B51	Date Issued: Jun	27, 2008
<b>Contact:</b> DON BANNON	Calibration Date: Jun	27, 2008
Manufacturer / Model: ERTCO / ASTM 1C	C *Calibration Due: Jun	27, 2009
<b>Description:</b> THERMOMETER,	GLASS Calibration Location: Bld	g. 64
Serial No: 5283		np. 74.0°F Hum. 40 %RH
Asset No: 011743	**Data Type: FO	UND-LEFT
Procedure: THERMOMETERS		
quality system conforms to ISO/IEC 17025, 2005, AN be reproduced, except in full, without the written appi product endorsement by Southwest Research Institute of this calibration relate only to the instrument describ	I Institute of Standards and Technology (NIST) and the International System of U NSI/NCSL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standa roval of the Southwest Research Institute Calibration Laboratory. This certificat e, American Association for Laboratory Accreditation (A2LA) or any agency of t bed above at the time of calibration and does not imply any long term stability of trument will remain within tolerance as any number of factors may cause an out-	rd. This certificate shall not te shall not be used to claim the U. S. Government. Results f the instrument.

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	Dec 16, 08
013908	1641	HART SCIENTIFIC	5628	SPRT	Feb 20, 10

Reviewed by: ( ) srk ( ) mar ( )  $\dot{wg}$ 



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

## Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303081682	Mfr:	Ertco		Technician:	blt
Asset No:	011743	Model:	ASTM 1C			
Serial No:	5283	Type:	THERMOMETER		Cal Date:	27-Jun-08
Remarks:	Accuracy Refe	erecnce ANSI Z2	30.1-1983			
Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Function/Range Temperature	Test Point °C	TI Reading °C	Difference °C	+/-Limit °C	+/-Uncertainty °C	Found/Left Result

50.0 -0.1 100.0 0.0 150.0 -0.2 END OF REPORT

-0.1

0.5

0.5

0.5

0.5

0.0

0.1

50.1

100.0

150.2

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0.29

0.29

0.29

0.29

Pass

Pass

Pass

Pass