

Serial Number: 015338

Asset Number: 015338

Procedure: TEMPERATURE PROBES - 5 JUN 06

Date Issued: 2-Jan-2009 *Date Due : 2-Jan-2010 **Results: FOUND-LEFT Temperature: 74°F Humidity: 40 %

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 customer 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 Cal at (20°, 40°, 60°, 80°, 100°C)

Standards Used

Asset #	<u>Manufacturer</u>	Model	Description	<u>Cal Date</u>	Due Date
009137	HART SCIENTIFIC	1575	SUPER THERMOMETER	18-Nov-2008	18-May-2009
013908	HART SCIENTIFIC	5628	SPRT	20-Feb-2008	20-Feb-2010
015240	HART SCIENTIFIC	2566	TC SCANNER, 12-CHANNEL MODULE	10-Dec-2008	10-Dec-2009

Reviewed By: (1) srk () mar () wgh Laboratory Quality Manager m:\A2LA OCT_08.rpt

Calibrated By: Bob Trollinger

Metrology Technician

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Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303085173 Mfr:		Duro-Sense		Technician:	blt		
Asset No:	015338	Model:	Туре К					
Serial No:	015338	Type:	Thermocouple		Cal Date:	02-Jan-09		
Remarks:	Limits taken from ASTM E230-02 and are based on brand new unused thermocouples.							
Function/Range	Test Point	TI Read	Difference	+/-Limit	+/-Uncertainty	Found/Left		
Temperature	°C	°C	°C	°C	°C	Result		
•	20.12	20.1	-0.02	2.2	0.47	Pass		
	40.10	40.1	0.00	2.2	0.47	Pass		
	60.05	60.2	0.15	2.2	0.47	Pass		
	80.02	80.2	0.18	2.2	0.47	Pass		
	100.04	100.3	0.26	2.2	0.47	Pass		
		END	OF REPORT					

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