

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 Laborator; Certificate #0972-01

Certificate of Calibration

Submitted By: DIV20 Address: B57

Contact: DON BANNON
Manufacturer / Model: FLUKE / Type K

Description: THERMOCOUPLE

Serial No: 10639

Asset No: 010639

Procedure: TEMPERATURE PROBES - 5 JUN 06

Work Order: 303078037

Date Issued: Dec 19, 2007

Calibration Date: Dec 19, 2008

*Calibration Due: Dec 19, 2008

Calibration Location: Bldg. 64

Environment: Temp. 73.0°F Hum. 45 %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: Ambient Only

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
009917	604420	HART SCIENTIFIC	5612	RTD	Mar 18, 08
010329	7949003	FLUKE	525A	TEMPERATURE/PRESSURE CALIBRATOR	Oct 24, 08
012305	A51826	HART SCIENTIFIC	1502A	TEMPERATURE READOUT	Mar 18, 08

Reviewed by: () wgh (

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

Measurements by: Mark Romero

Metrology Technician

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Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303078037	Mfr.	Fluke	Technician	Mark Romero
Asset No.	010639	Model	Type K		
Serial No.	10639	Туре.	Thermocouple	Cal Date.	19-Dec-07
Remarks:		Accurac	y based on ASTM		
		2 (K TC= ±3.96°F)			
		Αı	mbient Only		

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left	
Temperature	°F	°F	°F	°F	°F		
·	72.012	72.05	0.04	3.96	0.11	Pass	
END OF REPORT							