



SOUTHWEST RESEARCH INSTITUTE®

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Institute Calibration Laboratory
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Certificate #

0972-01

Certificate of Calibration

Submitted By: DIV20
Address: B57
Contact: DON BANNON
Manufacturer Model: FLUKE Type K
Description: THERMOCOUPLE
Serial No: 10638
Asset No: 010638
Procedure: TEMPERATURE, JAN/04

Work Order: 303067412
Date Issued: Jan 16, 2006
Calibration Date: Jan 16, 2006
***Calibration Due:** Jan 16, 2007
Calibration Location: Bldg. 64
Environment: Temp. 76.0°F Hum. 45 %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: Ambient Only

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
009414	A25788	HART SCIENTIFIC	1502A	TEMPERATURE READOUT	Feb 10, 06
010692	632656	HART SCIENTIFIC	5618	PLATINUM RTD	Feb 10, 06

Reviewed by: blt () jrg () pwc () wgh ()
Metrology Technician

Measurements by: Mike Young
Metrology Technician

Southwest Research Institute
 Calibration Laboratory
 Measurement Report

Work Order:	303067412	Mfr.	Fluke	Technician	msy
Asset No.	010638	Model	Type K		
Serial No.	10638	Type.	Thermocouple	Cal Date.	16-Jan-06
Remarks: Accuracy based on ASTM E230-02 Ambient Only					

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Temperature	° F 75.560	° F 75.74	° F 0.18	° F 0.57	° F 0.11	Pass
END OF REPORT						