



SOUTHWEST RESEARCH INSTITUTE®

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Institute Calibration Laboratory
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Certificate of Calibration

0972-01

Submitted By: DIV20

Address: B57

Contact: DON BANNON

Manufacturer / Model: FLUKE / 80PK-2A

Description: THERMOCOUPLE PROBE

Serial No: 10637

Asset No: 010637

Procedure: TEMPERATURE PROBES - 5 JUNE, 2006

Work Order: 303072415

Date Issued: Jan 4, 2007

Calibration Date: Jan 4, 2007

***Calibration Due:** Jan 4, 2008

Calibration Location: Bldg. 64

Environment: Temp. 73.0°F Hum. 40 %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: LIMITED CAL -20 to150 Deg C

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
009137	A21208	HART SCIENTIFIC	1575	SUPER THERMOMETER	Jun 27, 07
010814	A44625	HART SCIENTIFIC	1529	THERMOCOUPLE THERMOMETER	Oct 17, 07
011161	0202	HART SCIENTIFIC	5699	SPRT	Sep 13, 08

Reviewed by blf () jrg () pwc () wgh ()

Metrology Technician

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

Measurements by: Bob Trollinger

Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303072415	Mfr.	Fluke	Technician	blt
Asset No.	010637	Model	80PK-2A	Cal Date.	04-Jan-07
Serial No.	10637	Type.	Immersion Probe		
Remarks:					
Limited Calibration -20 to 150 °C					

Type K						
Function/Range	Test Point	T1 Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Temperature	Deg C	Deg C	Deg C	Deg C	Deg C	Result
	-19.837	-19.80	0.04	2.2	0.30	Pass
	0.080	0.04	-0.04	2.2	0.30	Pass
	50.021	50.02	0.00	2.2	0.30	Pass
	99.942	100.23	0.29	2.2	0.30	Pass
	150.079	150.70	0.62	2.2	0.30	Pass

END OF REPORT