



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 Laboratory
Certificate #0972-01

Certificate of Calibration

Cost Center: DIV20

Mail Stop: B51

Customer: DON BANNON

Manufacturer/Model: FLUKE / 80PK-2A

Description: THERMOCOUPLE PROBE

Serial Number: 10637

Asset Number: 010637

Procedure: TEMPERATURE PROBES - 5 JUN 06

Work Order: 303085743

Date Issued: 2-Feb-2009

Date Calibrated: 30-Jan-2009

***Date Due :** 12-Dec-2009

****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/NCCL 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 -20° to 150°C

Standards Used

<u>Asset #</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Description</u>	<u>Cal Date</u>	<u>Due Date</u>
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: () srk () mar () wgh

Laboratory Quality Manager

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Calibrated By: Bob Trollinger

Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303085743	Mfr:	Fluke	Technician:	blt
Asset No:	010637	Model:	80PK-2A	Cal Date:	30-Jan-09
Serial No:	10637	Type:	Immersion Probe		
Remarks:					
Limited Calibration -20 to 150 °C					

Type K						
Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Temperature	°C	°C	°C	°C	°C	Result
	-19.767	-19.53	0.24	2.2	0.47	Pass
	0.155	0.31	0.15	2.2	0.47	Pass
	50.082	50.27	0.19	2.2	0.47	Pass
	100.029	100.53	0.50	2.2	0.47	Pass
	150.047	150.89	0.84	2.2	0.47	Pass
END OF REPORT						