



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: FISHER SCIENTIFIC 15-077-26

Description: TEMPERATURE METER

Serial No: 51046103

Asset No: 011674

Procedure: TEMPERATURE METERS, OCT/03

Work Order: 303069392

Date Issued: May 19, 2006

Calibration Date: May 19, 2006

***Calibration Due:** May 18, 2007

Calibration Location: Bldg. 64

Environment: Temp. 72.0°F Hum. 42 %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: None

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
004164	6380025	FLUKE	5500A/SC300	CALIBRATOR	Aug 04, 06

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

Metrology Technician

Measurements by: Jude Morin

Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303069392	Mfr.	Fisher Scientific	Technician	jim
Asset No.	011674	Model	15-077-26	Cal Date.	19-May-06
Serial No.	51046103	Type	Thermocouple Thermometer		
Remarks:					

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
T1 Input Type K	°C	°C	°C	°C	°C	Result
	-50	-50.0	0.0	1.2	0.38	Pass
	190	190.0	0.0	1.6	0.30	Pass
	575	574	-1	2.7	0.66	Pass
	960	960	0	3.9	0.66	Pass
	1200	1201	1	4.6	0.74	Pass
T2 Input Type K	°C	°C	°C	°C	°C	
	-50	-51	-1	1.2	0.38	Pass
	190	189.0	-1.0	1.6	0.30	Pass
	575	573	-2	2.7	0.66	Pass
	960	959	-1	3.9	0.66	Pass
	1200	1200	0	4.6	0.74	Pass
T1 Input Type K	°F	°F	°F	°F	°F	
	-58	-59	-1	1.7	0.90	Pass
	310	310	0	2.4	0.80	Pass
	1025	1023	-2	4.6	0.80	Pass
	1740	1739	-1	6.7	0.80	Pass
	1900	1900	0	7.2	1.0	Pass
T2 Input Type K	°F	°F	°F	°F	°F	
	-58	-59	-1	1.7	0.90	Pass
	310	308	-2	2.4	0.80	Pass
	1025	1022	-3	4.6	0.80	Pass
	1740	1739	-1	6.7	0.80	Pass
	1900	1900	0	7.2	1.0	Pass
Difference	°F	°F	°F	°F	°F	
T1-T2	0	0.0	0.0	1.5	.012	Pass
	°C	°C	°C	°C	°C	
T1-T2	0	0.0	0.0	1.0	.012	Pass

END OF REPORT