

SOUTHWEST RESEARCH INSTITUTE  
Department of Quality Assurance  
Calibration Laboratory • 522-5215

WORK ORDER

CERTIFICATE # 22441 ASSET # 004994 DATE 8/21/96

ITEM DATA:

Manufacturer ERTCO Model 15-166A  
Description Thermometer Serial # C96-784  
Accessories Cal

ACTION REQUESTED \_\_\_\_\_

CUSTODIAN Daryl Dean DIV 20

Turned in by: Daryl Dean Phone 6090

CHARGE # 20-5708-573 Date Required \_\_\_\_\_

INSTRUMENT USED ON:  NUCLEAR  DOD  NASA  GLP  SPPE  
 OTHER \_\_\_\_\_

COPY OF CALIBRATION CERTIFICATE  Yes  No

CONDITION RECEIVED: \_\_\_\_\_ Out of tolerance, repaired to specifications  
\_\_\_\_\_ In tolerance, minor adjustments/repairs made  
\_\_\_\_\_ In tolerance, no adjustments/repairs  
\_\_\_\_\_ Out of tolerance, adjusted to specifications  
 Received into system, introduced or reactivated  
 Calibration interval  
\_\_\_\_\_ Reliability code

ACTION TAKEN: (Calibration/Repair/Parts) Calibrated per procedure

**22441**

CAL ENVIRONMENT:  
Temperature 78°F Humidity 38%RH

CALIBRATED/REPAIRED:  
By [Signature] Cal Procedure 01-9-30-5103  
Date 26 AUG 96 Accuracy +/- 1°C  
Cal Interval 6 mths Time to complete:  
Next Cal due 26 FEB 97 Cal 2.5 Repair \_\_\_\_\_  
Standards used (Asset#) 219, 328

DATE COMPLETED 26 AUG 96  
DATE PICKED UP 8/27/96 PICKED UP BY [Signature]

SOUTHWEST RESEARCH INSTITUTE  
Department of Quality Assurance  
Calibration Laboratory • 522-5215

WORK ORDER

CERTIFICATE # 24334 ASSET # 004994 DATE 17 Feb 97

ITEM DATA:

Manufacturer Ergo Model 15 166A  
Description Thermometer Serial # C96-7021  
Accessories \_\_\_\_\_

ACTION REQUESTED cal

CUSTODIAN Dir. 20, Danell Dunn

Turned in by: \_\_\_\_\_ Phone \_\_\_\_\_

CHARGE # 20-5708-561 Date Required \_\_\_\_\_

INSTRUMENT USED ON:  NUCLEAR  DOD  NASA  GLP  SPPE  
 OTHER \_\_\_\_\_

COPY OF CALIBRATION CERTIFICATE  Yes  No

CONDITION RECEIVED: \_\_\_\_\_ Out of tolerance, repaired to specifications  
\_\_\_\_\_ In tolerance, minor adjustments/repairs made  
 In tolerance, no adjustments/repairs  
\_\_\_\_\_ Out of tolerance, adjusted to specifications  
\_\_\_\_\_ Received into system, introduced or reactivated  
\_\_\_\_\_ Calibration internal  
\_\_\_\_\_ Reliability code

24334

ACTION TAKEN: (Calibration/Repair/Parts) Calibrated by procedure  
std 447  
0.06°C 0.0°C

CAL ENVIRONMENT:  
Temperature 76 °F Humidity 40 %RH

CALIBRATED/REPAIRED:  
By [Signature] Cal Procedure WI-9-30-27763  
Date 21 Feb 97 Accuracy ±1°C  
Cal Interval 6 Mo Time to complete:  
Next Cal due 21 Aug 97 Cal 3.0 Repair \_\_\_\_\_  
Standards used (Asset#) 319, 324

DATE COMPLETED 21 Feb 97  
DATE PICKED UP 2/26/97 PICKED UP BY [Signature]

SOUTHWEST RESEARCH INSTITUTE  
Department of Quality Assurance  
Calibration Laboratory • 522-5215

**WORK ORDER**

CERTIFICATE # 2054 ASSET # 004994 DATE 25 Aug 97

ITEM DATA:

Manufacturer Fisher Brand / E. I. Co Model 15-106A  
Description Thermometer Serial # C96-786  
Accessories \_\_\_\_\_

ACTION REQUESTED MI

CUSTODIAN Dr. R. David Durr

Turned in by: \_\_\_\_\_ Phone 602

CHARGE # 20-508-561 Date Required \_\_\_\_\_

INSTRUMENT USED ON:  DOD/NASA  NUCLEAR  GLP  SPPE  ISO  
 OTHER \_\_\_\_\_

COPY OF CALIBRATION CERTIFICATE  Yes  No

NEW WORK  Yes  No If yes, an evaluation shall be made to verify capabilities.

By \_\_\_\_\_ Date \_\_\_\_\_

CONDITION RECEIVED: \_\_\_\_\_ (F) Out of tolerance, repaired to specifications  
\_\_\_\_\_ (G) In tolerance, minor adjustments/repairs made  
 (J) In tolerance, no adjustments/repairs  
\_\_\_\_\_ (K) Out of tolerance, adjusted to specifications  
\_\_\_\_\_ (S) Received into system, introduced or reactivated

ACTION TAKEN: (Calibration/Repair/Parts) Calibrated by procedure  
277 447  
0.01°C 0.0°C

**2054**

CAL ENVIRONMENT:  
Temperature 82°F Humidity 37%RH

CALIBRATED/REPAIRED:  
By [Signature] Cal Procedure 41-9-30-7H03  
Date 3 Aug 97 Accuracy ± 1°C  
Cal Interval 60 days Reliability Code: 3  
Next Cal due 3 Oct 98 Cal Time 1.5 Repair Time \_\_\_\_\_  
Standards used (Asset#) 218, 525

DATE COMPLETED 4 Aug 97  
DATE PICKED UP 9/10/97 PICKED UP BY [Signature]

SOUTHWEST RESEARCH INSTITUTE  
Department of Quality Assurance  
Calibration Laboratory • 522-5215

**WORK ORDER**

CERTIFICATE # 28927 ASSET # 001994 DATE 09 Mar 98

ITEM DATA:

Manufacturer Tisha Model 15.166A  
Description Thermocouples Serial # 016-180  
Accessories \_\_\_\_\_

ACTION REQUESTED Cal

CUSTODIAN Dir. Dr. Bill Dunn

Turned in by: \_\_\_\_\_ Phone 6090

CHARGE # 20-1402-91 Date Required \_\_\_\_\_

INSTRUMENT USED ON: DOD/NASA  NUCLEAR  GLP  SPPE  ISO  
OTHER \_\_\_\_\_

COPY OF CALIBRATION CERTIFICATE Yes  No

NEW WORK Yes  No  If yes, an evaluation shall be made to verify capabilities.  
By \_\_\_\_\_ Date \_\_\_\_\_

CONDITION RECEIVED: \_\_\_\_\_ (F) Out of tolerance, repaired to specifications  
\_\_\_\_\_ (G) In tolerance, minor adjustments/repairs made  
 (J) In tolerance, no adjustments/repairs  
\_\_\_\_\_ (K) Out of tolerance, adjusted to specifications  
\_\_\_\_\_ (S) Received into system, introduced or reactivated

ACTION TAKEN: (Calibration/Repair/Parts) \_\_\_\_\_

Cal steel unit  
0.02°C 0.2°C

CAL ENVIRONMENT: Temperature 72°F Humidity 26 %RH

CALIBRATED/REPAIRED:  
By W. J. ... Cal Procedure WI 9-30-7#03  
Date 10 Mar 98 Accuracy ±1°C  
Cal Interval 6 mo Reliability Code: 4  
Next Cal due 10 Sep 98 Cal Time 1.0 Repair Time \_\_\_\_\_  
Standards used (Asset#) 29, 328

DATE COMPLETED 10 Mar 98  
DATE PICKED UP 3/18/98 PICKED UP BY [Signature]

28927

SOUTHWEST RESEARCH INSTITUTE  
Department of Quality Assurance  
Calibration Laboratory • 522-5215

WORK ORDER

CERTIFICATE # 31639 ASSET # 004994 DATE 19 Oct 98

ITEM DATA:

Manufacturer Fisher Model 15-1664  
Description Thermometer Serial # 196784  
Accessories \_\_\_\_\_

ACTION REQUESTED Cal

CUSTODIAN D.V. 20, Darrell Dunn

Turned in by: \_\_\_\_\_ Phone 6090

CHARGE # 20-1402-571 Date Required \_\_\_\_\_

INSTRUMENT USED ON:  (DOD/NASA)  (NUCLEAR)  (GLP)  (SPPE)  (ISO)  
 OTHER \_\_\_\_\_

COPY OF CALIBRATION CERTIFICATE  (Yes)  (No)

NEW WORK  Yes  No If yes, an evaluation shall be made to verify capabilities.

By MKS Date 10-19-98

Work involves proprietary/confidential information or equipment  (Yes)  (No)

CONDITION RECEIVED: \_\_\_\_\_ (F) Out of tolerance, repaired to specifications  
\_\_\_\_\_ (G) In tolerance, minor adjustments/repairs made  
 (J) In tolerance, no adjustments/repairs  
\_\_\_\_\_ (K) Out of tolerance, adjusted to specifications  
\_\_\_\_\_ (S) Received into system, introduced or reactivated

ACTION TAKEN: (Calibration/Repair/Parts) Calibrated per procedure

CAL ENVIRONMENT:  
Temperature 75 °F Humidity 54 %RH

CALIBRATED/REPAIRED:  
By R. S. [Signature] Cal Procedure ASTM E77-92  
Date 10/27/98 Accuracy 1/2 degrees  
Cal Interval 6 mths Reliability Code: 5  
Next Cal due 10/27/99 Cal Time 1.0 Repair Time \_\_\_\_\_  
Standards used (Asset#) 219, 328

DATE COMPLETED 10/27/98  
DATE PICKED UP 10/22/98 PICKED UP BY DD

31639

# CALIBRATION CHECK FORM

Date Calibrated \_\_\_\_\_  
Technician 8216 CAL. PROCEDURE: ASTM E77-92  
Work Order 31639  
Unit Under Test THERMOMETER  
Manufacturer FISHER BRAND Model 15-16A

Rev \_\_\_\_\_ Chg \_\_\_\_\_  
Page 1 of 1  
SN C96-784 ASN 1594

STEP	FUNCTION OR RANGE	APPLIED	TOLERANCE		MEASURED VALUES		P/T
			MIN	MAX	AS FOUND	RELEASED	
		<u>0°C</u>	<u>±</u>	<u>1.0°C</u>	<u>0</u>		
		<u>0.00</u>			<u>0.0</u>		<u>P</u>

SOUTHWEST RESEARCH INSTITUTE  
Department of Quality Assurance  
Calibration Laboratory • 522-5215

WORK ORDER

CERTIFICATE # 34399 ASSET # 004994 DATE 05 May 99

ITEM DATA:

Manufacturer Fisherbrand Model 15-166A  
Description Thermometer Serial # 196-784  
Accessories \_\_\_\_\_

ACTION REQUESTED Cal

CUSTODIAN Div. 20, Darrell Dunn

Turned in by: \_\_\_\_\_ Phone 6090

CHARGE # 20-04 Date Required \_\_\_\_\_

INSTRUMENT USED ON:  (DOD/NASA)  (NUCLEAR)  (GLP)  (SPPE)  (ISO)  
 OTHER \_\_\_\_\_

COPY OF CALIBRATION CERTIFICATE  (Yes)  (No)

NEW WORK  Yes  No If yes, an evaluation shall be made to verify capabilities.

By MAC Date 05-05-99

Work involves proprietary/confidential information or equipment  (Yes)  (No)

CONDITION RECEIVED: \_\_\_\_\_ (F) Out of tolerance, repaired to specifications  
\_\_\_\_\_ (G) In tolerance, minor adjustments/repairs made  
 (J) In tolerance, no adjustments/repairs  
\_\_\_\_\_ (K) Out of tolerance, adjusted to specifications  
\_\_\_\_\_ (S) Received into system, introduced or reactivated

ACTION TAKEN: (Calibration/Repair/Parts) Calibrated per procedure

CAL ENVIRONMENT:  
Temperature 71 °F Humidity 58 %RH

CALIBRATED/REPAIRED:  
By [Signature] Cal Procedure F.O. 3383-1-42-1, Apr 97  
Date 12 May 99 Accuracy 0.1% class  
Cal Interval 6 mos Reliability Code: F  
Next Cal due 12 Nov 99 Cal Time 1.5 Repair Time \_\_\_\_\_  
Standards used (Asset#) 5174, 7001

DATE COMPLETED 12 May 99  
DATE PICKED UP 5/13/99 PICKED UP BY [Signature]

34399

CALIBRATION CHECK FORM

Date Calibrated 12 May 99 Work Order 34399  
Technician 8216 Calibration Procedure T.O. 3345-4-42-1, MAR 97  
Unit Under Test THERMISTOR  
Manufacturer EASTON SAFETY Model 15-166A SN C96-754 ASN 4994

STEP	FUNCTION OR RANGE	APPLIED	TOLERANCE		MEASURED VALUES		P/P
			MIN	MAX	AS FOUND	RELEASED	
	RANGE: -20°C TO 150°C	0°C		±1°C	0		
		-18.0			-18		P
		14.0			14		P
		48.0			48		P
		82.0			82		P
		116.0			116		P
		145.0			145		P



SOUTHWEST RESEARCH INSTITUTE  
Department of Quality Assurance  
Calibration Laboratory • 522-5215

WORK ORDER

WORK ORDER # 36844 ASSET # 004994 DATE 17 Nov 99

ITEM DATA:

Manufacturer Fisher-brand / Extac Model 15-106A  
Description Thermometer Serial # C96-184  
Accessories \_\_\_\_\_

ACTION REQUESTED cal

CUSTODIAN Mr. D. Daniel Damm

Turned in by: \_\_\_\_\_ Phone 6090

CHARGE # 80.01 Date Required \_\_\_\_\_

INSTRUMENT USED ON:  (DOD/NASA)  (NUCLEAR)  (GLP)  (SPPE)  (ISO)  
 OTHER \_\_\_\_\_

COPY OF CALIBRATION CERTIFICATE  (Yes)  (No)

NEW WORK  Yes  No If yes, an evaluation shall be made to verify capabilities.

By MAJ Date 11-17-99

Work involves proprietary/confidential information or equipment  (Yes)  (No)

CONDITION RECEIVED: \_\_\_\_\_ Out of tolerance  
 In tolerance  
\_\_\_\_\_ Damaged (Contact customer)  
\_\_\_\_\_ Contact \_\_\_\_\_ Date \_\_\_\_\_  
\_\_\_\_\_ Received into system, introduced or reactivated

ACTION TAKEN: (Calibration/Repair/Parts) Calibrated per procedure

CAL ENVIRONMENT:  
Temperature 75 °F Humidity 52 %RH

CALIBRATED/REPAIRED:  
By [Signature] Cal Procedure CL-9, 11/17/99  
Date 22 Nov 99 Accuracy [Signature]  
Cal Interval 6 mos Reliability Code 7  
Next Cal Due 22 May 00 Cal Time 2 Repair Time \_\_\_\_\_  
Standards used (Asset #) 5243, 5174

DATE COMPLETED 22 Nov 99  
DATE PICKED UP 11/23/99 PICKED UP BY [Signature]

36844

**CALIBRATION WORKSHEET**

Date Calibrated 22 Nov 99 Work Order 36844 Cal By 8214

Procedure No./Date CL-9, May 99 Unit Under Test THERMOMETER

Mfg. FISHERMAN/ETP Model 1516A SN C96-784 AN 4994

STEP	FUNCTION OR RANGE	APPLIED	TOLERANCE	MEASURED VALUES		P/F
			MIN - MAX	AS FOUND	RELEASED	
		°C	+/- 1°C	°C		
	20% RANGE	14.00		14		P
	40% RANGE	48.00		48		P
	60% RANGE	82.00		82		P
	80% RANGE	116.00		116		P
	100% (-120)	149.0		149		P



Southwest Research Institute  
6220 Culebra Road  
San Antonio, TX 78238  
(210) 522-5215  
Department of Quality Assurance  
Calibration Laboratory



Certificate #  
0972-01

## Certificate of Calibration

22 November 1999

**Issued to:** DARRELL DUNN DIV20 B57  
**Manufacturer/Model:** FISHER SCIENTIFIC 15-166A  
**Description:** THERMOMETER  
**Serial Number:** C96-784  
**Asset Number:** 004994

This certifies the above item was calibrated in compliance with MIL-STD-45662A and ANSI/NCSL Z540-1-1994. Standards used in this calibration, described in the referenced calibration procedure with associated uncertainties or tolerances, are traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request. This certificate is not to be reproduced, except in full, without the written approval of the Southwest Research Institute Department of Quality Assurance Calibration Laboratory.

This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results of this calibration certificate were determined in accordance with the terms of accreditation unless stated otherwise below.

The uncertainty of the calibration was sufficient to determine that the item met the manufacturer's published specifications unless stated otherwise below.

**Ambient Conditions:** Temperature: 75.0 Degrees Fahrenheit Humidity: 52 % RH


**Calibration Date:** 22 Nov 99 **Calibration Procedure:** CL-9, MAY99

**Condition as Received:** IN TOLERANCE

**Condition as Released:** IN TOLERANCE

**Remarks:**

**Approved by:**

  
\_\_\_\_\_  
Jim Patterson, Supervisor or Walt Hill, Metrologist

**Certificate # 36844**

m:\a2la.rpt Rev date 10 Mar 99

**Measurements performed by:**

  
\_\_\_\_\_  
Ken Harp, Technician

Page 1 of 1

# WORK ORDER 39210

Date Received 5/25/00

Asset No. 004994 Manufacturer FISHER SCIENTIFIC Model 15-166A  
Description THERMOMETER Serial Number C96-784  
Accessory Received/Required NONE  
Div/CC ID NONE Accessory to Asset No. N/A  
Div/CC DIV20 Location B57 Custodian DARRELL DUNN Tel. 6090  
Charge/Project No. 20.00751.006 Proprietary/Confidential N Date Required ROUTINE  
Work Requested CALIBRATION  
Receiving Inspection O.K.  
Delivered By DARRELL DUNN Tel. 6090

## WORK HISTORY

Date	Start Time	Stop Time	Notes

## PARTS

Part Name	Part Number	Cost	Failure Description

## WORK SUMMARY

Failure Description \_\_\_\_\_

Repair Action \_\_\_\_\_

Cal Procedure CL-9, MAY99 Temp 71 F Hum 47 %

Tech JW Cal Hrs. .7 Repair Hrs. \_\_\_\_\_ Part Cost \_\_\_\_\_

Action Taken OK

Standards Used 215 5174

Date Cal 2/20/00 Int. 6 Mo. Date Due 1/20/00 Reliability Code 8

Date Picked Up 6/2/00 Picked Up By Darrell Dunn

39210

### CALIBRATION CHECK FORM

Date Calibrated 1 JUN 2000      Work Order 39210      Cal By QW

Procedure No./Date : CL-9, May99      Unit Under Test Thermometer.

Mfg. Fisher      Model 15-1660      SN 96-784      AN 4994

STEP	FUNCTION OR RANGE	APPLIED	TOLERANCE		MEASURED VALUES		P/F
			MIN	MAX	AS FOUND	RELEASED	
4.1	Temperatre Calibration						
	Lowest value of Range + 2 Div.	19.91			20.2		
	20% Range	15.00			14.9		
	40% Range	49.76			49.1		
	60% Range	85.05			85.0		
	80% Range	120.07			120.0		
	Highest value of Range -2 Div.	149.93			149.7		
		25			25.0		



Southwest Research Institute  
6220 Culebra Road  
San Antonio, TX 78238  
(210) 522-5215  
Department of Quality Assurance  
Calibration Laboratory



Certificate #  
0972-01

## Certificate of Calibration

1 June 2000

**Issued to:** DARRELL DUNN DIV20 B57  
**Manufacturer/Model:** FISHER SCIENTIFIC 15-166A  
**Description:** THERMOMETER  
**Serial Number:** C96-784  
**Asset Number:** 004994

This certifies the above item was calibrated in compliance with MIL-STD-45662A and ANSI/NC SL Z540-1-1994. The results of this calibration relate only to the individual item as described above. Standards used in this calibration, described in the referenced calibration procedure with associated uncertainties or tolerances, are traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and available for examination upon request. This certificate is not to be reproduced, except in full, without the written approval of the Southwest Research Institute Department of Quality Assurance Calibration Laboratory.

This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results of this calibration certificate were determined in accordance with the terms of accreditation unless stated otherwise below.

The uncertainty of the calibration was sufficient to determine that the item met the manufacturer's published specifications unless stated otherwise below.


**Ambient Conditions:** Temperature: 76.0 Degrees Fahrenheit Humidity: 47 % RH

**Calibration Date:** 1 Jun 00 **Calibration Procedure:** CL-9, MAY99

**Condition as Received:** In Tolerance

**Remarks:**

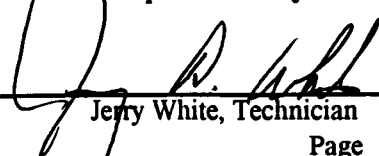
**Approved by:**

  
\_\_\_\_\_  
Jim Patterson, Supervisor, or Walt Hill, Metrologist

Certificate # 39210

m:\a2la.rpt Rev date 22 May 00

**Measurements performed by:**

  
\_\_\_\_\_  
Jerry White, Technician

Page 1 of 1

# SOUTHWEST RESEARCH INSTITUTE

## Calibration Laboratory

### WORK ORDER

Processed by RCRUZ at 3:56:28PM on 12/14/00

||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

**Work Order 444041763**

Arrived 12/14/00

Asset No. 004994

Manufacturer FISHER SCIENTIFIC

Model 15-166A

Instrument Type/Class THERMOMETER

Serial No. C96-784

Accessory No.

Calibration Procedure CL-9, MAY99

Location B57

Div/Client DIV20

Custodian DARRELL DUNN

Mail Stop B57

Tel. 6090

Charge/Project No. 20.00751.006

Delivered By / Telephone

**IN4CAL**

Special Instructions \_\_\_\_\_

### WORK NOTES

Date	Hours	Remarks/Notes
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

### REPAIR PARTS

Date	Hours	Part Name	Part Number	Failure Description	Cost
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

### WORK SUMMARY

Failure Description \_\_\_\_\_

Repair Action \_\_\_\_\_

Calibration Procedure \_\_\_\_\_ Temp 69 F Hum. 40 %

Tech JW Totals Cal Hours 1 Repair Hours \_\_\_\_\_ Parts Cost \_\_\_\_\_

Standards Used 219

Date Picked Up 1/9/2001

Picked Up By Darrell Dunn

**444041763**

# CALIBRATION CHECK FORM

Date Calibrated 21 DEC 2000 Work Order 41763 Cal By QW

Procedure No./Date: CL-9, MAY 99 Unit Under Test: THERMOMETER

Mfg.: FISHER Model: 15-166A SN C96-784 AN 4994

STEP	FUNCTION OR RANGE	APPLIED	TOLERANCE		MEASURED VALUES		P/ F
			MIN	MAX	AS FOUND	RELEASED	
	THERMOMETER	-20°C	+/-	1.0C	-20.1		P
		0°C			0.0		P
		50°C			49.5		P
		100°C			100.0		P
		150°C			149.5		P





Southwest Research Institute  
6220 Culebra Road  
San Antonio, TX 78238  
(210) 522-5215  
Department of Quality Assurance  
Calibration Laboratory



Certificate #  
0972-01

## Certificate of Calibration

22 December 2000

**Issued to:** DARRELL DUNN DIV20 B57  
**Manufacturer/Model:** FISHER SCIENTIFIC 15-166A  
**Description:** THERMOMETER  
**Serial Number:** C96-784  
**Asset Number:** 004994

This certifies the above item was calibrated in compliance with MIL-STD-45662A and ANSI/NCSL Z540-1-1994. The results of this calibration relate only to the individual item as described above. Standards used in this calibration, described in the referenced calibration procedure with associated uncertainties or tolerances, are traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and available for examination upon request. This certificate is not to be reproduced, except in full, without the written approval of the Southwest Research Institute Department of Quality Assurance Calibration Laboratory.

This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results of this calibration certificate were determined in accordance with the terms of accreditation unless stated otherwise below.

The uncertainty of the calibration was sufficient to determine that the item met the manufacturer's published specifications unless stated otherwise below.

**Ambient Conditions:** Temperature: 69.0 Degrees Fahrenheit Humidity: 40 % RH

**Calibration Date:** 21 Dec 00 **Calibration Procedure:** CL-9, MAY99

**Condition as Received:** IN TOLERANCE

**Condition as Released:** IN TOLERANCE

**Remarks:**

**Approved by:**

Jim Patterson, Supervisor, or Walt Hill, Metrologist

**Certificate # 444041763**

mAa2la.rpt Rev date 22 May 00

**Measurements performed by:**

Jerry White, Technician