

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

**WORK ORDER**

CERTIFICATE # 22431 ASSET # 004986 DATE 8-21-96

ITEM DATA:

Manufacturer EZTCO Model 15-166A  
Description Thermometer Serial # C96-833  
Accessories \_\_\_\_\_

ACTION REQUESTED cal.

CUSTODIAN Darryl Dunn, Div 20

Turned in by: Darryl Phone (609)

CHARGE # 20-5078-573 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) Collected by Receiver

CAL ENVIRONMENT:  
Temperature 78 °F Humidity 58 %RH

CALIBRATED/REPAIRED:  
By [Signature] Cal Procedure 21-9-30-7463  
Date 26 Aug 96 Accuracy [Signature]  
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]

22431

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

WORK ORDER

CERTIFICATE # 24341 ASSET # 004986 DATE 17 Feb-97

ITEM DATA:

Manufacturer Ex-100 Model 15 166A  
Description Thermometer Serial # 096-833  
Accessories \_\_\_\_\_

ACTION REQUESTED Cal

CUSTODIAN D.V. Dunn, Donald Dunn

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

CHARGE # 205708.561 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

24341

ACTION TAKEN: (Calibration/Repair/Parts) Calibrated per procedure.  
WT 445  
0.01°C 0.0°C

CAL ENVIRONMENT:  
Temperature 80 °F Humidity 35% RH

CALIBRATED/REPAIRED:  
By [Signature] Cal Procedure WI-9-30-TA03  
Date 21 Feb 97 Accuracy ±1°C  
Cal Interval 6 Mos Time to complete:  
Next Cal due 21 Feb 99 Cal 2.0 Repair \_\_\_\_\_  
Standards used (Asset#) 218, 328

DATE COMPLETED 31 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 # 26590 ASSET # 001981 DATE 25 Aug 97

ITEM DATA:

Manufacturer Fisher Process Inc Model K-100  
Description 1 hr. records Serial # C76-033  
Accessories \_\_\_\_\_

ACTION REQUESTED W

CUSTODIAN J. W. Daniel

Turned in by: \_\_\_\_\_ Phone 609

CHARGE # 20 5708.561 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  
W 445  
0.018°C 0.0°C

26590

CAL ENVIRONMENT:  
Temperature 82 °F Humidity 34 %RH

CALIBRATED/REPAIRED:  
By [Signature] Cal Procedure 41-9-30-FA03  
Date 3 Sep 97 Accuracy ±1°C  
Cal Interval 6 Mos Reliability Code: 3  
Next Cal due 3 Sep 98 Cal Time 1.5 Repair Time \_\_\_\_\_  
Standards used (Asset#) 219, 328

DATE COMPLETED 4 Sep 97  
DATE PICKED UP 9/2/97 PICKED UP BY [Signature]

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

**WORK ORDER**

CERTIFICATE # 28923 ASSET # 004936 DATE 09 Mar 98

ITEM DATA:

Manufacturer Fisherbrand Model 1516A  
Description Thermometer Serial # 0016-833  
Accessories \_\_\_\_\_

ACTION REQUESTED cal

CUSTODIAN 01170, Do of Unit

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

CHARGE # 70-1400-571 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 \_\_\_\_\_ 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 sbp unit  
0.024°C 0°C

CAL ENVIRONMENT: Temperature 72 °F Humidity 26 %RH

CALIBRATED/REPAIRED:  
By K. K. K. Cal Procedure WI 9-30-TH03  
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]

28923



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

WORK ORDER

CERTIFICATE # 31638 ASSET # 00986 DATE 19 01 98

ITEM DATA:

Manufacturer Fisher Model 15-166A  
Description Thermometer Serial # 98-833  
Accessories \_\_\_\_\_

ACTION REQUESTED Cal

CUSTODIAN Div. 20, Donnell 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 me! Date 01-19-98

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 by procedure

CAL ENVIRONMENT:  
Temperature 74 °F Humidity 54 %RH

CALIBRATED/REPAIRED:  
By [Signature] Cal Procedure ASTM E77-92  
Date 19 01 98 Accuracy 1/2 degrees  
Cal Interval 6 mths Reliability Code: 5  
Next Cal due 12 01 99 Cal Time 1.0 Repair Time \_\_\_\_\_  
Standards used (Asset#) 219, 328

DATE COMPLETED 19 01 98  
DATE PICKED UP 10/22/99 PICKED UP BY DD

31638

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

WORK ORDER

CERTIFICATE # 34401 ASSET # 001986 DATE 05 May 99

ITEM DATA:

Manufacturer Fisher brand Model 15-166A  
Description Thermometer Serial # C96-833  
Accessories \_\_\_\_\_

ACTION REQUESTED cal

CUSTODIAN Du. 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 MMJ 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 50 %RH

CALIBRATED/REPAIRED:  
By [Signature] Cal Procedure F.P. 3315-1-421, Apr 97  
Date 12 May 99 Accuracy 1/2% span  
Cal Interval 6 mos Reliability Code: 6  
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]

34401



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

WORK ORDER

WORK ORDER # 36858 ASSET # 004986 DATE 17 Nov. 99

ITEM DATA:  
Manufacturer Fisher Model 15-106A  
Description Thermometer Serial # 196-833  
Accessories \_\_\_\_\_

ACTION REQUESTED cal

CUSTODIAN D. G. Dunn, Darrell Dunn

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

CHARGE # 20-0A 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 by procedure

CAL ENVIRONMENT:  
Temperature 75 °F Humidity 52 %RH

CALIBRATED/REPAIRED:  
By Robert A Cal Procedure CL-9, May 99  
Date 22 Nov 99 Accuracy 1/2% Span  
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 Darrell D

36858





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:** C96-833  
**Asset Number:** 004986

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 #** 36858

m:\a2la.rpt Rev date 10 Mar 99

**Measurements performed by:**

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

Page 1 of 1

# WORK ORDER 39212

Date Received 5/25/00

Asset No. 004986 Manufacturer FISHER SCIENTIFIC Model 15-166A  
Description THERMOMETER Serial Number C96-833  
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

39212

## WORK SUMMARY

Failure Description \_\_\_\_\_  
Repair Action \_\_\_\_\_  
Cal Procedure CL-9, MAY99 Temp 76 F Hum 47 %  
Tech JWD Cal Hrs. .7 Repair Hrs. \_\_\_\_\_ Part Cost \_\_\_\_\_  
Action Taken OK  
Standards Used 219 5174  
Date Cal 7 Jul 2000 Int. 6 Mo. Date Due 1 Dec 2000 Reliability Code 8  
Date Picked Up 6/2/00 Picked Up By [Signature]





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:** C96-833  
**Asset Number:** 004986

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.

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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:**

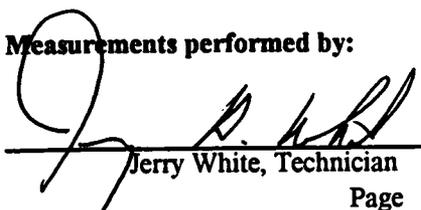
**Approved by:**

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

**Certificate #** 39212

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

1 10000 0000 0000 0000 0000 0000 0000

Work Order **444041759**

Arrived 12/14/00

Asset No. 004986 Manufacturer FISHER SCIENTIFIC

Model 15-166A

Instrument Type/Class THERMOMETER

Serial No. C96-833

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 DW

Totals

Cal Hours 1

Repair Hours \_\_\_\_\_

Parts Cost \_\_\_\_\_

Standards Used 219

Date Picked Up 1/9/2001

Picked Up By Darrell Dunn

444041759





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:** C96-833  
**Asset Number:** 004986

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 # 444041759**

m3a2la.rpt Rev date 22 May 00

**Measurements performed by:**

Jerry White, Technician

# SOUTHWEST RESEARCH INSTITUTE

## Calibration Laboratory

### WORK ORDER

Processed by RCRUZ at 2:43:41PM on 6/22/01

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

Work Order **444044167**

Arrived 6/22/01

Asset No. 004986

Manufacturer FISHER SCIENTIFIC

Model 15-166A

Instrument Type/Class THERMOMETER

Serial No. C96-833

Accessory No.

Calibration Procedure CL-9, MAY99

Location B57

Div/Client DIV20

Custodian DARRELL DUNN

Mail Stop B57

Tel. 6090

Charge/Project No. 00751.006 1.20

Delivered By / Telephone

**IN4CAL**

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

### WORK NOTES

Date	Hours	Remarks/Notes
<u>6/25</u>	<u>.5</u>	<u>Calibrate</u>
<u>6/26</u>	<u>.5</u>	<u>Calibrate</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

### REPAIR PARTS

Date	Hours	Part Name	Part Number	Failure Description	Cost
<u>N/A</u>	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

### WORK SUMMARY

Failure Description N/A

Repair Action M/N

Calibration Procedure CL-9, 5/99 Temp 75F Hum. 50%

Tech R Dykstra Totals Cal Hours 1.0 Repair Hours \_\_\_\_\_ Parts Cost \_\_\_\_\_

Standards Used 0219

Date Picked Up 7/9/01

Picked Up By [Signature]

444167





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

26 June 2001

**Issued to:** DARRELL DUNN DIV20 B57  
**Manufacturer/Model:** FISHER SCIENTIFIC 15-166A  
**Description:** THERMOMETER  
**Serial Number:** C96-833  
**Asset Number:** 004986  
**Work Order Number:** 444044167

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: 75.0 Degrees Fahrenheit Humidity: 50 % RH

**Calibration Date:** 26 Jun 01 **Calibration Procedure:** CL-9, MAY99

**Condition as Received:** IN TOLERANCE

**Condition as Released:** IN TOLERANCE

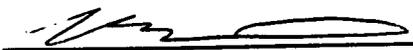
**Remarks:**

**Approved by:**

  
\_\_\_\_\_

Walt Hill, Supervisor  
Institute Calibration Laboratory

**Measurements performed by:**

  
\_\_\_\_\_

Roger Dykstra, Technician

# SOUTHWEST RESEARCH INSTITUTE

## Calibration Laboratory

### WORK ORDER

Received by JIBARRA, 1/8/02 11:36:03AM

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

Arrived 1/8/02

Work Order **444046676**

Asset No. 004986 Manufacturer FISHER SCIENTIFIC

Model 15-166A

Equipment Type THERMOMETER

Serial No. C96-833

Accessory No.

Interval 6 M

Calibration Procedure CL-9, MAY99

Location B57

Div/Client DIV20

Custodian DARRELL DUNN

Mail Stop B57

Tel 6090

**IN4CAL**

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

Notify before adjustments or repairs. (✓) Provide data with certificate (✓) Certificate Typ. \_\_\_\_\_

Charge/Project No. 00751.006 1.20

Requester / Telephone DARRELL DUNN/ X6090

This information is correct for the work requested. *Darrell Dunn*

### WORK NOTES

Date	Hours	Remarks/Notes
<u>1/10/02</u>	<u>1.0</u>	<u>Cal</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Date	Hours	Part Name	Part Number	Failure Description	Cost
<u>n/a</u>	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

### WORK SUMMARY

Failure Description n/a

Repair Action n/a

Tech R. Dyken Cal Hrs. 1.0 Repair Hrs \_\_\_\_\_ Parts Cost \_\_\_\_\_ Temp 76 F Hum. 42 %

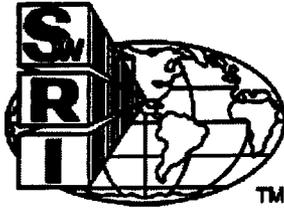
Standards Used 0215

Date Picked Up 1/11/02

Picked Up By *Darrell Dunn*

444046676





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

## Certificate of Calibration

10 January 2002

**Issued to:** DARRELL DUNN DIV20 B57  
**Manufacturer/Model:** FISHER SCIENTIFIC 15-166A  
**Description:** THERMOMETER  
**Serial Number:** C96-833  
**Asset Number:** 004986  
**Work Order Number:** 444046676

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.

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: 42 % RH

**Calibration Date:** 10 Jan 02 **Calibration Procedure:** CL-9, MAY99

**Condition as Received:** IN TOLERANCE

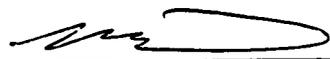
**Condition as Returned:** IN TOLERANCE

**Remarks:**

**Approved by:**

  
Walt Hill, Supervisor  
Institute Calibration Laboratory

**Measurements performed by:**

  
Roger Dykstra, Technician