

S O U T H W E S T R E S E A R C H I N S T I T U T E

Department of Quality Assurance
Calibration Laboratory

CERTIFICATE OF CALIBRATION

Issued to: DIV20 B57 NARASI SRIDHAR

Device No: 2468

Manufacturer: FISHER

Model: 14-983-10B

Nomenclature: THERMOMETER

Serial Number: 183302

SwRI No: NONE

Cal interval 6 Mo.

Remarks

Accuracy: +/-1DEG.C

Procedure: SWRI

ENVIRONMENT

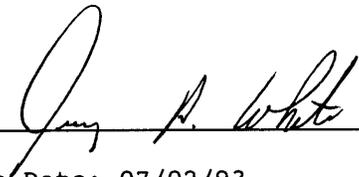
Temperature: 0 Humidity: 0 Location: SWRI BLDG. 145

CONCLUSION

Tolerance/Remarks: Received into the system, introduced or reactivated

Calibration was in accord with requirements of MIL-STD-45662A. Measurements are traceable to the National Institute of Standards and Technology. Inspection and test data are on file and available for inspection.

Signed



Calibration Date: 07/02/93

Cal interval: 6 Months

Record Number: 00011665

Next Calibration Due: 01/02/94

S O U T H W E S T R E S E A R C H I N S T I T U T E

Department of Quality Assurance
Calibration Laboratory

Device Serial No: 183302

Calibration Date: 07/02/93

STANDARDS

Standard No: 219 Manufacturer: AZONIX

Model: A1011

Nomenclature: RTD THERMOMETER

Serial No: T1587-2078

Cal.Due: 02/12/94

Cal.Rec.No: 00010541

Standard No: 328 Manufacturer: AZONIX

Model: A12001

Nomenclature: RTD TEMPERATURE PROBE

Serial No: 351477

Cal.Due: 02/12/94

Cal.Rec.No: 00010540

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Department of Quality Assurance
Calibration Laboratory

CERTIFICATE OF CALIBRATION

Issued to: DIV20 B57 NARASI SRIDHAR

Device No: 2468

Manufacturer: FISHER

Model: 14-983-10B

Nomenclature: THERMOMETER

Serial Number: 183302

SwRI No: NONE

Cal interval 6 Mo.

Remarks

Accuracy: +/-1DEG.C

Procedure: SWRI

ENVIRONMENT

Temperature:

Humidity:

Location: SWRI DIV04 BLDG. 145

CONCLUSION

Tolerance/Remarks: Received in tolerance, no adjustments made

Room temperature.

Calibration was in accord with requirements of MIL-STD-45662A. Measurements are traceable to the National Institute of Standards and Technology. Inspection and test data are on file and available for inspection.

Signed _____

Calibration Date: 01/11/94

Cal interval: 6 Months

Record Number: 00013052

Next Calibration Due: 07/11/94

S O U T H W E S T R E S E A R C H I N S T I T U T E

Department of Quality Assurance
Calibration Laboratory

Device Serial No: 183302

Calibration Date: 01/11/94

STANDARDS

Standard No: 219 Manufacturer: AZONIX

Model: A1011

Nomenclature: RTD THERMOMETER

Serial No: T1587-2078

Cal.Due: 02/12/94

Cal.Rec.No: 00010541

Standard No: 328 Manufacturer: AZONIX

Model: A12001

Nomenclature: RTD TEMPERATURE PROBE

Serial No: 351477

Cal.Due: 02/12/94

Cal.Rec.No: 00010540

S O U T H W E S T R E S E A R C H I N S T I T U T E

Department of Quality Assurance
Calibration Laboratory

Device Serial No: 183302

Calibration Date: 07/28/94

STANDARDS

Standard No: 219 Manufacturer: AZONIX Model: A1011
Nomenclature: RTD THERMOMETER
Serial No: T1587-2078 Cal.Due: 02/22/95 Cal.Rec.No: 00013377

Standard No: 328 Manufacturer: AZONIX Model: A12001
Nomenclature: RTD TEMPERATURE PROBE
Serial No: 351477 Cal.Due: 03/10/95 Cal.Rec.No: 00013378

SOUTHWEST RESEARCH INSTITUTE
Department of Quality Assurance
Calibration Laboratory

CERTIFICATE OF CALIBRATION
01/30/95

Issued to: NARASI SRIDHAR DIV20 ,B57
Manufacturer: FISHE
Nomenclature: THERMOMETER
Serial Number: 183302

Asset Number: 002468
Model Number: 14-983-10B
SwRI Capital Number: NONE

ENVIRONMENTAL CONDITIONS

Temperature: 73.0F

Relative Humidity: 53 %

CALIBRATION INFORMATION

Location: B145
Procedure Number: WI-9-30-TH03
Remarks:

Technician: 8216
Accuracy: +/-1DEG.C
Received IN Tolerance

Calibration was in accordance with requirements of MIL-STD-45662A.
Measurements are traceable to the National Institute of Standards and Technology.
Inspection and test data are on file and available for inspection.

STANDARDS USED FOR CERTIFICATION

Asset #	Serial #	Mfg	Model #	Nomenclature	Cal Date	Int.	Cal Due
000219	T1587-2078	AZONI	A1011	RTD THERMOMETER	02/22/94	12	02/22/95
000328	351477	AZONI	A12001	RTD TEMPERATURE PROBE	03/10/94	12	03/10/95

Certified by : _____

Calibration Date: 01/30/95
Interval: 6 months
Next Calibration Due: 07/30/95

Certificate#: 16277

SOUTHWEST RESEARCH INSTITUTE
Department of Quality Assurance
Calibration Laboratory
CERTIFICATE OF CALIBRATION
01/31/96

Issued to: DARRELL DUNN DIV20 ,B57
Manufacturer/Model: FISHE/14-983-10B
Nomenclature: THERMOMETER
Serial Number: 183302
Asset Number: 002468
Notes:

ENVIRONMENTAL CONDITIONS

Temperature: 63.0F

Relative Humidity: 30%

CALIBRATION INFORMATION

Procedure Number: WI-9-30-TH03
Remarks:

Accuracy: +/-1DEG.C
Received IN Tolerance

Calibration was in accordance with requirements of MIL-STD-45662A. Measurements are traceable to the National Institute of Standards and Technology. Inspection and test data are on file and available for inspection.

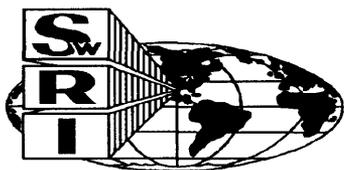
STANDARDS USED FOR CERTIFICATION

Asset #	Serial #	Mfg	Model #	Nomenclature	Cal Date	Int.	Cal Due
000219	T1587-2078	AZONI	A1011	RTD THERMOMETER	03/06/95	12	03/06/96
000328	351477	AZONI	A12001	RTD TEMPERATURE PROBE	03/06/95	12	03/06/96

Certified by : 

Certificate#: 20021

Calibration Date: 01/31/96
Interval: 6 months
Next Calibration Due: 07/31/96



Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238
Department of Quality Assurance
Calibration Laboratory

Certificate of Calibration

20 August 1996

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: FISHE 14-983-10B
Description: THERMOMETER
Serial Number: 183302
Asset Number: 002468

Environmental Conditions

Temperature: 80.0

Humidity: 33%

Calibration Information

Calibration was in accordance with requirements of MIL-STD-45662A and ANSI/NCSS Z540-1-1994. Measurements are traceable to the National Institute of Standards and Technology (NIST). This report may not be reproduced except in full without written approval of the originator. Inspection and test data are on file and available for inspection.

Calibration Date: 19 Aug 96

Calibration Procedure: WI-9-30-TH03

Interval: 6 months

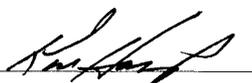
Accuracy: +/-1DEG.C

Next Calibration Due: 19 Feb 97

Received: In Tolerance

Remarks:

Certificate # 22377

Signed: 

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Department of Quality Assurance
Calibration Laboratory

Certificate of Calibration

21 February 1997

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: FISHER 14-983-10B
Description: THERMOMETER
Serial Number: 183302
Asset Number: 002468

Environmental Conditions

Temperature: 81.0 Deg. F Humidity: 32%

Calibration Information

Calibration was in accordance with requirements of MIL-STD-45662A and ANSI/NC SL Z540-1-1994. Measurements are traceable to the National Institute of Standards and Technology (NIST). This report may not be reproduced except in full without written approval of the originator. Inspection and test data are on file and available for inspection.

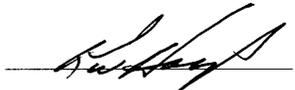
Calibration Date: 20 Feb 97 Calibration Procedure: WI-9-30-TH03
Interval: 6 months Accuracy: +/-1DEG.C
Next Calibration Due: 20 Aug 97 Received: In Tolerance

Remarks:

Standards Used

Asset	MFR	Model	Description	Serial No.	Due Cal
000219	AZONI	A1011	RTD THERMOMETER	T1587-2078	12 Mar 97
000328	AZONI	A12001	RTD TEMPERATURE PROB	351477	12 Mar 97

Certificate # 24348

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Calibration Laboratory

Certificate of Calibration

4 September 1997

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: FISHERBRAND 14-983-10B
Description: THERMOMETER
Serial Number: 183302
Asset Number: 002468

Environmental Conditions

Temperature: 80.0 Deg. F Humidity: 34%

Calibration Information

Calibration was in accordance with requirements of MIL-STD-45662A and ANSI/NCSL Z540-1-1994. Measurements are traceable to the National Institute of Standards and Technology (NIST). This report may not be reproduced except in full without written approval of the originator. Inspection and test data are on file and available for inspection.

Calibration Date: 3 Sep 97 Calibration Procedure: WI-9-30-TH03
Interval: 6 months Accuracy: +/-1 DEG.C
Next Calibration Due: 3 Mar 98 Received: In Tolerance

Remarks:

Standards Used

Asset	MFR	Model	Description	Serial No.	Due Cal
000219	AZONIX	A1011	RTD THERMOMETER	T1587-2078	24 Mar 98
000328	AZONIX	A12001	RTD TEMPERATURE PROB	351477	3 Apr 98

Certificate # 26594

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Department of Quality Assurance
Calibration Laboratory

Certificate of Calibration

10 March 1998

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: FISHERBRAND 14-983-10B
Description: THERMOMETER
Serial Number: 183302
Asset Number: 002468

Environmental Conditions

Temperature: 72.00 Deg. F

Humidity: 26 % RH

Calibration Information

Calibration was in accordance with requirements of MIL-STD-45662A and ANSI/NCSL Z540-1-1994. Measurements are traceable to the National Institute of Standards and Technology (NIST). This report may not be reproduced except in full without written approval of the originator. Inspection and test data are on file and available for inspection.

The uncertainty of the calibration was sufficient to determine that the instrument met the manufacturer's specifications.

Calibration Date: 10 Mar 98

Calibration Procedure: WI 9-30-TH03

Interval: 6 months

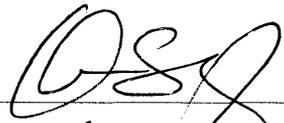
Next Calibration Due: 10 Sep 98

Received: In Tolerance

Remarks:

Standards Used

Asset	MFR	Model	Description	Serial No.	Due Cal
000219	AZONIX	A1011	RTD THERMOMETER	T1587-2078	24 Mar 98
000328	AZONIX	A12001	RTD TEMPERATURE PROBE	351477	3 Apr 98

Signed: 

Title: 

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Certificate # 28930



Southwest Research Institute
6220 Culebra Road
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(210) 522-5215
Department of Quality Assurance
Calibration Laboratory



Certificate #
0972-01

Certificate of Calibration

7 May 1999

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: FISHER SCIENTIFIC 14-983-10B
Description: THERMOMETER
Serial Number: 183302
Asset Number: 002468

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: 76.0 Degrees Fahrenheit Humidity: 33 % RH

Calibration Date: 7 May 99 **Calibration Procedure:** T.O.33K5-4-42-1, APR97

Condition as Received: IN TOLERANCE

Condition as Released: IN TOLERANCE

Remarks:

Approved by:

Jim Patterson, Supervisor or Walt Hill, Metrologist

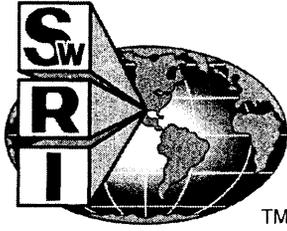
Certificate # 34376

m:\a2la.rpt Rev date 10 Mar 99

Measurements performed by:

Ken Harp, Technician

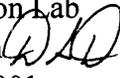
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6220 Culebra Road · San Antonio · Texas, U.S.A. 78228-5166

MEMORANDUM

To: SwRI Calibration Lab
From: Darrell S. Dunn 
Date: September 4, 2001
Subject: Broken Thermometers

The following thermometers are broken in service and need to be removed from the calibration recall list. A copy of this memorandum will be placed in the Division 20 calibration records for these thermometers.

Kessler	ASTM 82C	Serial Number 32922	Asset Number 003778
Kessler	ASTM 82C	Serial Number 9243196	Asset Number 002310
Kessler	ASTM 1C	Serial Number 115814	Asset Number 003248
Fisher Scientific	14-983-10B	Serial Number 183302	Asset Number 002468
Fisher Scientific	14-983-10B	Serial Number 0323004	Asset Number 002042
Fisher Scientific	15-166A	Serial Number C96-784	Asset Number 004994
Fisher Scientific	15-166A	Serial Number C96-616	Asset Number 004987
Fisher Scientific	15-166A	Serial Number H98-180	Asset Number 007300

Please contact me at extension 6090 if you have any questions.