

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

WORK ORDER

CERTIFICATE # 34366 ASSET # 001409 DATE 04 May 99

ITEM DATA:
Manufacturer Etico Model 76MM 1MM
Description Thermometer Serial # F98 293
Accessories Probe

ACTION REQUESTED Cal

CUSTODIAN Div 20, Donnell Dunn

Turned in by: _____ Phone (602) 96

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 MAG Date 05-04-99

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) Cal

CAL ENVIRONMENT:
Temperature 75 °F Humidity 57 %RH

CALIBRATED/REPAIRED:
By [Signature] Cal Procedure T033KS-4-42-1 A0.97
Date 5-5-99 Accuracy ±1°C
Cal Interval 6 mo Reliability Code: _____
Next Cal due 11-5-99 Cal Time 1h Repair Time _____
Standards used (Asset#) 5774, 7001

DATE COMPLETED 5-6-99
DATE PICKED UP 5/13/99 PICKED UP BY [Signature]

34366

SOUTHWEST RESEARCH INSTITUTE
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WORK ORDER

WORK ORDER # 36842 ASSET # 01902 DATE 19 Nov 99

ITEM DATA:

Manufacturer TEGA Model A-100 10
Description 1102 METER TOR Serial # 598-295
Accessories _____

ACTION REQUESTED Cal

CUSTODIAN NO. 20, Daniel Quinn

Turned in by: _____ Phone 6090

CHARGE # 23-04 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 [Signature] Date 11-19-99

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, May 99
Date 22 Nov 99 Accuracy 10%
Cal Interval 6 mos Reliability Code 2
Next Cal Due 22 May 00 Cal Time 2 Repair Time _____
Standards used (Asset #) 5242, 5174

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

36842



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: ERTCO ASTM 1C
Description: THERMOMETER
Serial Number: E98-293
Asset Number: 007302

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

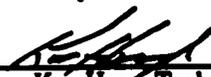
Remarks:

Approved by:



Jim Patterson, Supervisor or Walt Hill, Metrologist
Certificate # 36842

Measurements performed by:



Ken Harp, Technician

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WORK ORDER 39328

Date Received 6/5/00

Asset No. 007302 Manufacturer ERTCO Model ASTM 1C
Description THERMOMETER Serial Number E98-293
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
<u>06/14</u>			<u>Thermometer inadvertently picked up by DW-15 runner, who dropped it before realizing unit did not belong to division. Called paying for replacement.</u>

PARTS

Part Name	Part Number	Cost	Failure Description

WORK SUMMARY

Failure Description _____

Repair Action _____

Cal Procedure CL-9, 5/99 Temp 73 F Hum 54 %

Tech QME Cal Hrs. 2 Repair Hrs. _____ Part Cost _____

Action Taken COL

Standards Used 5243 5124

Date Cal 9 JUN 2000 Int. 6 Mo. Date Due 5 DEC 2000 Reliability Code _____

Date Picked Up 6-14-00 Picked Up By Darrell Dunn

39328



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

9 June 2000

Issued to: DARRELL DUNN DIV20 B57
Manufacturer/Model: ERTCO ASTM 1C
Description: THERMOMETER
Serial Number: E98-293
Asset Number: 007302

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: 73.0 Degrees Fahrenheit Humidity: 54 % RH

Calibration Date: 9 Jun 00 **Calibration Procedure:** CL-9, 5/99

Condition as Received: In Tolerance

Remarks:

Approved by:

Jim Patterson, Supervisor, or Walt Hill, Metrologist

Certificate # 39328

m:\a2la.rpt Rev date 22 May 00

Measurements performed by:

Jerry White, Technician

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