

Alcotest 7110 Calibration Certificate

Part I - Control Tests

Equipment	Alcotest 7110 MKIII-C	Serial No.:	ARXA-0056		
Location:	LONG BRANCH POLICE DEPT				
Calibration File No.:	00802	Calib. Date:	09/24/2019	Calib. No.:	00031
Certification File No.:	00803	Cert. Date:	09/24/2019	Cert. No.:	00025
Linearity File No.:	00781	Lin. Date:	05/30/2019	Lin. No.:	00024
Solution File No.:	00798	Soln. Date:	09/08/2019	Soln. No.:	00165
Sequential File No.:	00803	File Date:	09/24/2019		
Calibrating Unit:	WET	Model No.:	CU-34	Serial No.:	DDXN S3-0217
Control Solution %:	0.100%			Expires:	07/23/2020
Solution Control Lot:	18220			Bottle No.:	0167

Function	Result %BAC	Time HH:MM	Temperature Simulator (°C)	Comment(s) or Error(s)
Ambient Air Blank	0.000%	09:31D		
Control 1 EC	0.099%	09:32D	33.9°C	*** TEST PASSED ***
Control 1 IR	0.100%	09:32D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:33D		
Control 2 EC	0.099%	09:34D	34.0°C	*** TEST PASSED ***
Control 2 IR	0.100%	09:34D	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:34D		
Control 3 EC	0.098%	09:35D	33.9°C	*** TEST PASSED ***
Control 3 IR	0.100%	09:35D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:36D		

All tests within acceptable tolerance.

Coordinator

Last Name: LUTZ

First Name: DENNIS

MI: J

Signature: _____

Tip I Dept 7045

Badge No.: 7045

Date: 09/24/2019

Pursuant to law, and the "Chemical Breath Testing Regulations" N.J.A.C. 13:51, I am a duly appointed Breath Test Coordinator/Instructor. In my official capacity, and consistent with "Calibration Check Procedure for Alcotest 7110," as established by the Chief Forensic Scientist of the Division of State Police, I perform calibration checks on approved instruments employing infrared analysis and electrochemical analysis, when utilized in a single approved instrument as a dual system of chemical breath testing. Pursuant to, and consistent with, the current "Calibration Check Procedure for Alcotest 7110," as established by the Chief Forensic Scientist, I performed a Calibration Check on the approved instrument identified on this certificate. The results of my Calibration Check are recorded on this certificate, which consists of two parts on two pages: Part I - Control Tests; and Part II - Linearity Tests. I certify that the foregoing statements made by me are true. I am aware that if any of the foregoing statements made by me are wilfully false, I am subject to punishment.

Alcotest 7110 Calibration Certificate

Part II - Linearity Tests

Equipment Alcotest 7110 MKIII-C Serial No.: ARXA-0056
Location: LONG BRANCH POLICE DEPT
Calibration File No.: 00802 Calib. Date: 09/24/2019 Calib. No.: 00031
Certification File No.: 00803 Cert. Date: 09/24/2019 Cert. No.: 00025
Linearity File No.: 00804 Lin. Date: 09/24/2019 Lin. No.: 00025
Solution File No.: 00798 Soln. Date: 09/08/2019 Soln. No.: 00165
Sequential File No.: 00804 File Date: 09/24/2019

Calibrating Unit: WET Model No.: CU-34 Serial No.: DDSC S3-0001
Control Solution %: 0.040% Expires: 07/31/2020
Solution Control Lot: 18240 Bottle No.: 0763

Calibrating Unit: WET Model No.: CU-34 Serial No.: DDXC S3-0020
Control Solution %: 0.080% Expires: 08/06/2020
Solution Control Lot: 18250 Bottle No.: 1446

Calibrating Unit: WET Model No.: CU-34 Serial No.: DDMK S3-0008
Control Solution %: 0.160% Expires: 08/21/2020
Solution Control Lot: 18260 Bottle No.: 1458

Function	Result %BAC	Time HH:MM	Temperature Simulator (°C)	Comment(s) or Error(s)
Ambient Air Blank	0.000%	09:49D		
Control 1 EC	0.042%	09:49D	33.9°C	*** TEST PASSED ***
Control 1 IR	0.040%	09:49D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:51D		
Control 2 EC	0.041%	09:52D	33.9°C	*** TEST PASSED ***
Control 2 IR	0.039%	09:52D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:53D		
Control 3 EC	0.082%	09:54D	34.0°C	*** TEST PASSED ***
Control 3 IR	0.079%	09:54D	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:56D		
Control 4 EC	0.080%	09:57D	34.0°C	*** TEST PASSED ***
Control 4 IR	0.080%	09:57D	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	09:58D		
Control 5 EC	0.161%	09:59D	34.0°C	*** TEST PASSED ***
Control 5 IR	0.159%	09:59D	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	10:01D		
Control 6 EC	0.159%	10:01D	34.0°C	*** TEST PASSED ***
Control 6 IR	0.158%	10:01D	34.0°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	10:03D		

All tests within acceptable tolerance.

Coordinator

Last Name: LUTZ

First Name: DENNIS

MI: J

Signature: _____

TPI I Lutz 7045

Badge No.: 7045

Date: 09/24/2019

Calibrating Unit

New Standard Solution Report

Equipment	Alcotest 7110 MKIII-C	Serial No.:	ARXA-0056
Location:	LONG BRANCH POLICE DEPT		
Calibration File No.:	00802	Calib. Date:	09/24/2019
Certification File No.:	00803	Cert. No.:	00031
Linearity File No.:	00804	Cert. Date:	09/24/2019
Solution File No.:	00805	Lin. No.:	00025
Sequential File No.:	00805	Lin. Date:	09/24/2019
		Soln. No.:	00166
		File Date:	09/24/2019

Calibrating Unit:	WET	Model No.:	CU-34	Serial No.:	DDXN S3-0217
Control Solution %:	0.100%			Expires:	02/11/2021
Solution Control Lot:	19060			Bottle No.:	0687

Function	Result %BAC	Time HH:MM	Temperature Simulator (°C)	Comment(s) or Error(s)
Ambient Air Blank	0.000%	11:20D		
Control 1 EC	0.100%	11:20D	33.9°C	*** TEST PASSED ***
Control 1 IR	0.099%	11:20D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	11:21D		
Control 2 EC	0.099%	11:22D	33.9°C	*** TEST PASSED ***
Control 2 IR	0.100%	11:22D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	11:23D		
Control 3 EC	0.099%	11:24D	33.9°C	*** TEST PASSED ***
Control 3 IR	0.097%	11:24D	33.9°C	*** TEST PASSED ***
Ambient Air Blank	0.000%	11:25D		

All tests within acceptable tolerance.

On this date, I installed the above indicated "NEW SOLUTION" in accordance with Alcotest 7110 operator training and procedures established by the (NJSP) Chief Forensic Scientist.

Temperature Probe Serial Number: _____

DDEEP2-090 (24)

Changed By:

Last Name: LUTZ

First Name: DENNIS

MI: J

Signature: _____

Tpr I Lutz 7045

Badge No.: 7045

Date: 09/24/2019

Alcotest 7110 MKIII-C Calibration NIST-Traceable Digital Thermometer Readings

Coordinator:

Tpr I Dennis J Lutz
Name

7045
Badge No.

Location:

Long Branch Police Dept
Agency

ARXA-0056
Alcotest Serial No.

Equipment:

191 959 029
Digital NIST Temperature Measuring System Serial No.

Simulator Solution Concentration	CU-34 Simulator Serial No.	Time Simulators Started to Heat	Time Temp. Reading Obtained	Temp. Reading on NIST Traceable Thermometer
0.04%	DDSC S3-0001	08:08 D	09:17 D	33.9°C
0.08%	DDXC S3-0020	08:08 D	09:17 D	34.0°C
0.10%	DDXN S3-0217	08:08 D	09:18 D	34.0°C
0.16%	DDMK S3-0008	08:08 D	09:19 D	34.0°C

Pursuant to law and the "Chemical Breath Testing Regulations" established at N.J.A.C. 13:51, I am a duly appointed Breath Test Coordinator/Instructor. In my official capacity and consistent with the "Calibration Check Procedure for Alcotest 7110" as established by the Chief Forensic Scientist of the Division of State Police, I perform calibration checks on Alcotest 7110 MKIII-C instruments. Pursuant to and consistent with the current "Calibration Check Procedure for Alcotest 7110", I performed a Calibration Check Procedure on the Alcotest 7110 MKIII-C instrument identified on this certificate. Pursuant to the current "Calibration Check Procedure for Alcotest 7110", I used the Digital NIST-traceable Temperature Measuring System identified on this certificate to confirm that the temperatures of the 0.10%, 0.04%, 0.08%, and 0.16% Simulator Solutions used in the respective CU-34 Simulators identified on this certificate, were 34.0 degrees Celsius \pm 0.2 degrees Celsius. I hereby certify that I truthfully recorded on this certificate the temperatures of each of the simulator solutions as shown on the Digital NIST-traceable Temperature Measuring System thermometer. I am aware that if any of the foregoing statements made by me are willfully false, I am subject to punishment.

Tpr I Lutz 7045
Coordinator's Signature

9-24-19
Date

Dräger

Simulator

CERTIFICATE OF ACCURACY

This Certificate of Accuracy verifies that the specified unit has been examined and found to be in compliance with National Highway and Traffic Safety Administration regulations for devices used to calibrate Evidential Breath Testers.
(F.R. Vol. 59 No. 249 12/19/94 Notices)
Draeger, Inc.

- Model: ALCOTEST CU34
- Model: MARK IIA
- X-Cal 2000 (Alcosim)
- Other: _____

Serial Number:

DDSES3-0001

Certification Date:

7-18-19

Technician:

BS

Re-Certification Due Date:

7-18-20

Dräger

Simulator

CERTIFICATE OF ACCURACY

This Certificate of Accuracy verifies that the specified unit has been examined and found to be in compliance with National Highway and Traffic Safety Administration regulations for devices used to calibrate Evidential Breath Testers.
(F.R. Vol. 59 No. 249 12/19/94 Notices)
Draeger, Inc.

- Model: ALCOTEST CU34
- Model: MARK IIA
- X-Cal 2000 (Alcosim)
- Other: _____

Serial Number:

DDXCS3-0020

Certification Date:

7-18-19

Technician:

BS

Re-Certification Due Date:

7-18-20

Dräger

Simulator

CERTIFICATE OF ACCURACY

This Certificate of Accuracy verifies that the specified unit has been examined and found to be in compliance with National Highway and Traffic Safety Administration regulations for devices used to calibrate Evidential Breath Testers.
(F.R. Vol. 59 No. 249 12/19/94 Notices)
Draeger, Inc.

Model: ALCOTEST CU34

Model: MARK IIA

X-Cal 2000 (Alcosim)

Other: _____

Serial Number:

DDMK53-0008

Certification Date:

7-18-19

Technician:

BS

Re-Certification Due Date:

7-18-20

Dräger

Alcotest 7110 Temperature Probe

CERTIFICATE OF ACCURACY

This is to certify that the Alcotest 7110 Temperature Probe has been tested for accuracy with instrumentation that is traceable to the National Institute of Standards and Technology (NIST). The manufacturer recommends accuracy verification of the Temperature Probe within 12 months of the certification date below, or sooner, according to your state's specifications.
For accurate temperature readings, the probe value on this certificate, noted below, must be programmed into the Alcotest 7110.

Serial Number Temp Probe:

DDDEEP2-060

Certification Date:

7-18-19

Next Certification Due:

7-18-20

Probe Value:

104

Draeger, Inc.

BS



Calibration complies with ISO/IEC
17025, ANSI/NCSL Z540-1, and 9001



Cert. No.: 4000-10177848

Traceable® Certificate of Calibration for Digital Thermometer

Manufactured for and distributed by: VWR International LLC Radnor Corporate Center, Bldg 1, Ste 200, 100 Matsonford Road, Radnor, PA, 19087

Instrument Identification:

Model: 61220-601, S/N: 191959029 Manufacturer: Control Company

Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Temperature Calibration Bath	93139		
Thermistor Module	A17118	20 Apr 2019	1000424560
Thermistor Module	A27129	10 Jan 2020	1000436202
Temperature Calibration Bath	A73332		
Temperature Probe	3039	08 May 2019	6-B7F4L-20-1
Temperature Calibration Bath	A79341		
Temperature Probe	5394	29 Jan 2020	B9124038
Temperature Calibration Bath	B16388		
Temperature Probe	5267	28 Jan 2020	B9124036

Certificate Information:

Technician: 104 Procedure: CAL-06 Cal Date: 13 Feb 2019 Cal Due Date: 13 Feb 2021
 Test Conditions: 38.85%RH 24.21°C 1023mBar

Calibration Data: (New Instrument)

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±U	TUR
°C	N.A.	N.A.		-0.002	0.001	Y	-0.052	0.048	0.0087	>4:1
°C	N.A.	N.A.		24.999	25.000	Y	24.949	25.049	0.0087	>4:1
°C	N.A.	N.A.		50.001	50.000	Y	49.951	50.051	0.0087	>4:1
°C	N.A.	N.A.		100.000	100.002	Y	99.95	100.05	0.0087	>4:1

This certificate indicates Traceability to standards provided by (NIST) National Institute of Standards and Technology and/or a National Standards Laboratory.

A Test Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement": (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without written approval of Control Company.

Nominal=Standard's Reading; As Left=Instrument's Reading; In Tol=In Tolerance; Min/Max=Acceptance Range; ±U=Expanded Measurement Uncertainty; TUR=Test Uncertainty Ratio; Accuracy=±(Max-Min)/2; Min=As Left Nominal(Rounded) - Tolerance; Max= As Left Nominal(Rounded) + Tolerance;

Nicol Rodriguez

Nicol Rodriguez, Quality Manager

Aaron Justice

Aaron Justice, Technical Manager

Note :

Maintaining Accuracy:

In our opinion once calibrated your Digital Thermometer should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Digital Thermometer change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company.

CONTROL COMPANY 12554 Galveston RD Suite B230 Webster TX USA 77598
 Phone 281 482-1714 Fax 281 482-9448 sales@control3.com www.control3.com

Control Company is an ISO/IEC 17025:2005 Calibration Laboratory Accredited by (A2LA) American Association for Laboratory Accreditation, Certificate No. 1750.01.
 Control Company is ISO 9001:2008 Quality Certified by DNV GL, Certificate No. CERT-01805-2008-AQ-HOU-RvA.
 International Laboratory Accreditation Cooperation (ILAC) - Multilateral Recognition Arrangement (MRA).



Calibration complies with ISO/IEC
17025, ANSI/NCSL Z540-1, and 9001



Cert. No.: 4000-10177848

Traceable® Certificate of Calibration for Digital Thermometer

CONTROL COMPANY 12554 Galveston RD Suite B230 Webster TX USA 77598
Phone 281 482-1714 Fax 281 482-9448 sales@control3.com www.control3.com

Control Company is an ISO/IEC 17025:2005 Calibration Laboratory Accredited by (A2LA) American Association for Laboratory Accreditation, Certificate No. 1750.01.
Control Company is ISO 9001:2008 Quality Certified by DNV GL, Certificate No. CERT-01805-2006-AQ-HOU-RvA.
International Laboratory Accreditation Cooperation (ILAC) - Multilateral Recognition Arrangement (MRA).