



Dräger

Alcotest 9510

CERTIFICATE OF ACCURACY

This is to certify that the Alcotest 9510 has been tested for accuracy and found to be in compliance with the National Highway Traffic Safety Administration Standard for evidential breath testing devices. The Alcotest 9510 is compliant as a "mobile" and "nonmobile" EBT with 49 FR 48854, 49 FR 48864, and 58 FR 48705. The manufacturer recommends accuracy verification of this instrument within 12 months of the calibration date below, or sooner, according to your state's specifications.

Certification Date: Serial Number:

5-1-2023 ARMK-0234

Draeger, Inc. _____

MB / GR

ALCOTEST 9510 PARAMETER REPORT

Equipment

Serial No.: ARMK-0236
Firmware: 8326739 1.5
WinCE application: 8326738 2.9
Configuration: 8326737 3.10

Date: 05/10/2023
Time: 13:05:59

Parameter

min. blow time	5.0	s
min. breath volume for females of age 60+	1.2	L
min. breath volume for all other	1.5	L
min. blow flow	4.5	L/min
plateau detection limit	4	%
plateau detection start conc.	70	microgram/L
neg. flow detection (part. vacuum)	10.0	hPa
neg. flow detection sensitivity	10	
cal. gas abort volume	0.4	L
result-to-zero limit	0.0050	%BAC
ambient air check limit	0.0049	%BAC
interference det. d-criterion limit abs.	38	microgram/L
interference det. d-criterion limit rel.	10.0	%
interference det. t-criterion limit abs.	8	microgram/L
interference det. t-criterion limit rel.	2.1	%
IR CO2 offset	10	microgram/L
IR H2O offset	4	microgram/L
EC H2O offset	0	microgram/L
Value-based EC aging comp. on/off (1/0)	0	
Time-based EC aging comp. on/off (1/0)	1	
Time-based EC aging comp. per month	0.2	%
Time-based EC aging comp. maximum	3.0	%
EC fatigue comp. max. sum	15000	
EC fatigue comp. factor	50	
EC fatigue comp. minutes	180	
mouth alc. mark limit	500	
mouth alc. lower limit	30	
mouth alc. slope	6	
mouth alc. zero limit	50	
mouth alc. max. neg. sum	6	
mouth alc. max. 2nd derivative	35	

ALCOTEST 9510 CERTIFICATION REPORT - WET ADJUST (PART I)
Spring Lake Boro

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMK-0236
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

Wet Adjust Record

Wet Adjust File No.: 44 Wet Adjust Date: 05/10/2023 Wet Adjust No.: 1
Wet Adjust Time: 14:12:44

Concentration: 0.100 %
Adjusting Unit: X-Cal 2000 Adj. Unit Ser. No.: ARND-0003 Adj. Unit Exp.: 10/05/2023
Solution Lot No.: 22240 Soln. Bottle No.: 1402 Adjust Soln. Exp.: 07/05/2024

Preadjust Simulator Temp.: 34.01 degree C
Postadjust Simulator Temp.: 34.00 degree C

Result

Procedure completed successfully.

Coordinator

Last Name: Mimikos - First Name: Nicholas MI: E Badge No.: 7413

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.



Signed:

Date: 05/10/2023

ID: 3

ALCOTEST 9510 CERTIFICATION REPORT - DRY ADJUST (PART II)
Spring Lake Boro

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMK-0236
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

Dry Adjust Record

Dry Adjust File No.: 45 Dry Adjust Date: 05/10/2023 Dry Adjust No.: 1
Dry Adjust Time: 14:38:58

Concentration: 0.100 %
Dry Gas Lot No.: 302-402448281 Adjust Gas Exp.: 05/19/2025
Barom. Model No.: Mensor CPG2300 Barom. Serial No.: 41001275 Barom. Cert. Exp.: 10/14/2023
Pre-adjust Amb. Pressure: 1021 hPa Post-adjust Amb. Pressure: 1020 hPa

Result

Procedure completed successfully.

Coordinator

Last Name: Mimikos - First Name: Nicholas MI: E Badge No.: 7413

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.



Signed:

Date: 05/10/2023

ID: 3

ALCOTEST 9510 CERTIFICATION REPORT - LINEARITY (PART III)
Spring Lake Boro

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMK-0236
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

Linearity Record

Linearity File No.: 46 Lin. Date: 05/10/2023 Lin. No.: 1

0.040% Dry Gas Lot No.: 1486624 Adjust. Gas Exp.: 04/26/2024
0.080% Dry Gas Lot No.: 1346773 Adjust. Gas Exp.: 07/08/2023
0.160% Dry Gas Lot No.: 1523726 Adjust. Gas Exp.: 07/16/2024
0.300% Dry Gas Lot No.: 1511968 Adjust. Gas Exp.: 06/21/2024

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	14:59:21		*TEST PASSED*
Control .04 Test 1 EC	0.039	14:59:59	1019	*TEST PASSED*
Control .04 Test 1 IR	0.038	14:59:59	1019	*TEST PASSED*
Ambient Air Blank	0.000	15:00:53		*TEST PASSED*
Control .04 Test 2 EC	0.039	15:01:09	1019	*TEST PASSED*
Control .04 Test 2 IR	0.038	15:01:09	1019	*TEST PASSED*
Ambient Air Blank	0.000	15:02:13		*TEST PASSED*
Control .08 Test 3 EC	0.078	15:02:49	1019	*TEST PASSED*
Control .08 Test 3 IR	0.078	15:02:49	1019	*TEST PASSED*
Ambient Air Blank	0.000	15:03:49		*TEST PASSED*
Control .08 Test 4 EC	0.079	15:04:04	1019	*TEST PASSED*
Control .08 Test 4 IR	0.079	15:04:04	1019	*TEST PASSED*
Ambient Air Blank	0.000	15:05:14		*TEST PASSED*
Control .16 Test 5 EC	0.156	15:05:51	1019	*TEST PASSED*
Control .16 Test 5 IR	0.160	15:05:51	1019	*TEST PASSED*
Ambient Air Blank	0.000	15:06:56		*TEST PASSED*
Control .16 Test 6 EC	0.159	15:07:11	1019	*TEST PASSED*
Control .16 Test 6 IR	0.161	15:07:11	1019	*TEST PASSED*
Ambient Air Blank	0.000	15:08:23		*TEST PASSED*
Control .30 Test 7 EC	0.296	15:08:34	1019	*TEST PASSED*
Control .30 Test 7 IR	0.300	15:08:34	1019	*TEST PASSED*
Ambient Air Blank	0.000	15:09:45		*TEST PASSED*
Control .30 Test 8 EC	0.302	15:09:57	1019	*TEST PASSED*
Control .30 Test 8 IR	0.304	15:09:57	1019	*TEST PASSED*
Ambient Air Blank	0.000	15:10:18		*TEST PASSED*

Result

All tests within acceptable tolerance.

Coordinator

Last Name: Mimikos - First Name: Nicholas MI: E Badge No.: 7413

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.

TPRI. A. J. #7413

Signed:

Date: 05/10/2023

ID: 3

ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 1
Spring Lake Boro
SERIAL NUMBER: ARMK-0236

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMK-0236
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9
Cyl1 Install File No.: 47 Cyl1 Install Date: 05/10/2023 Cyl1 Install No.: 1

Control Tests (0.100%)

Installation Inlet: #1 (Upper) Post test active Cyl.: #1 (Upper)
Dry Gas Lot No.: 302-402438593 Dry Gas Lot Exp.: 05/06/2025

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	15:17:32		*TEST PASSED*
Control Test 1			1019	*TEST PASSED*
EC Result	0.099	15:18:31		*TEST PASSED*
IR Result	0.099	15:18:31		*TEST PASSED*
Ambient Air Blank	0.000	15:19:34		*TEST PASSED*
Control Test 2			1019	*TEST PASSED*
EC Result	0.101	15:20:12		*TEST PASSED*
IR Result	0.100	15:20:12		*TEST PASSED*
Ambient Air Blank	0.000	15:21:16		*TEST PASSED*
Control Test 3			1018	*TEST PASSED*
EC Result	0.100	15:21:51		*TEST PASSED*
IR Result	0.100	15:21:51		*TEST PASSED*
Ambient Air Blank	0.000	15:22:11		*TEST PASSED*

Result

All tests within acceptable tolerance.

Coordinator

Last Name: Mimikos - First Name: Nicholas MI: E Badge No.: 7413

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.

TPRI / 1.70

Signed:

Date: 05/10/2023

ID: 3

ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 2
Spring Lake Boro
SERIAL NUMBER: ARMK-0236

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMK-0236
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9
Cyl2 Install File No.: 48 Cyl2 Install Date: 05/10/2023 Cyl2 Install No.: 1

Control Tests (0.100%)

Installation Inlet: #2 (Lower) Post test active Cyl.: #2 (Lower)
Dry Gas Lot No.: 302-402438594 Dry Gas Lot Exp.: 05/06/2025

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	15:24:37		*TEST PASSED*
Control Test 1			1018	*TEST PASSED*
EC Result	0.098	15:25:25		*TEST PASSED*
IR Result	0.099	15:25:25		*TEST PASSED*
Ambient Air Blank	0.000	15:26:27		*TEST PASSED*
Control Test 2			1018	*TEST PASSED*
EC Result	0.099	15:26:53		*TEST PASSED*
IR Result	0.099	15:26:53		*TEST PASSED*
Ambient Air Blank	0.000	15:27:57		*TEST PASSED*
Control Test 3			1018	*TEST PASSED*
EC Result	0.101	15:28:23		*TEST PASSED*
IR Result	0.099	15:28:23		*TEST PASSED*
Ambient Air Blank	0.000	15:28:44		*TEST PASSED*

Result

All tests within acceptable tolerance.

Coordinator

Last Name: Mimikos - First Name: Nicholas MI: E Badge No.: 7413

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.



Signed:

Date: 05/10/2023

ID: 3

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

DRAEGER MEDICAL SYSTEMS INC.

Sales order: 1111474011

Date: June 20, 2022

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-402438593
ETHANOL IN NITROGEN

Product Expiration: May 06, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	262.4	(0.101)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38434	260.4

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Calibration test 283190, 283189, 283188, or 283192 dated 6th January 2022 applies

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND38434-20211028, A679, A650, ND38462-20211027, ND18363-20211104, ND50144-20201218

No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: May 06, 2022

APPROVED BY: 

"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC

821 Chesapeake Drive, Cambridge, MD 21613-0149

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

DRAEGER MEDICAL SYSTEMS INC.

Sales order: 1111199542

Date: June 13, 2022

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.

CALGAZ LOT#: 302-402438594

ETHANOL IN NITROGEN

Product Expiration: May 06, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	262.3	(0.101)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38434	260.4

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

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CALGAZ, a division of Airgas USA LLC



Dräger

Alcotest 9510

CERTIFICATE OF ACCURACY

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Certification Date:

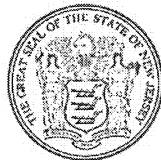
5.1.2023

Serial Number:

ARMK-0234

Draeger, Inc.

MB / GR



State of New Jersey

OFFICE OF THE ATTORNEY GENERAL
DEPARTMENT OF LAW AND PUBLIC SAFETY
DIVISION OF STATE POLICE
POST OFFICE BOX 7068
WEST TRENTON, NJ 08628-0068
(609) 882-2000

PHILIP D. MURPHY
Governor

SHEILA Y. OLIVER
Lt. Governor

MATTHEW J. PLATKIN
Acting Attorney General

COLONEL PATRICK J. CALLAHAN
Superintendent

CERTIFICATION OF ANALYSIS
0.100 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.1174 to 0.1246 grams per 100 milliliters of solution.

MANUFACTURER: Draeger, Inc.

ANALYSIS DATE: 07/21/2022

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 22240

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.1205 to 0.1219 grams per 100 milliliters of solution.

This lot of breath alcohol simulator solution may be utilized as a known traceable standard for the purpose of conducting periodic tests, pursuant to N.J.A.C. 13:51-4.3, of approved breath test instruments (N.J.A.C. 13:51-3.5) utilized by law enforcement agencies in this State. The manufacturer's expiration date for this lot of breath alcohol simulator solution is July 05, 2024.

As OFS Director for the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at the Office of Forensic Sciences of the Division of State Police on properly functioning and calibrated instruments and equipment. All procedures utilized are accurate, objective, and performed on a routine basis by personnel within the Office of Forensic Sciences, in accordance with their professional duties and responsibilities.

Michael Kennedy
Michael Kennedy
OFS Director
NJSP Office of Forensic Sciences

Sworn to and subscribed before me this 27 day of July, 2022.

Notary

KAREN E. STAHL
NOTARY PUBLIC OF NEW JERSEY
Commission # 50110822
My Commission Expires 8/13/2024

NOTARY PUBLIC OF NEW JERSEY
Commission # 50110822

Customer: DRAEGER INC

7256 S SAM HOUSTON PKWY W

STE 100

HOUSTON, TX 77085

PO Number: US74302835073



Certificate/SO Number: 5-E0Z7D-160-1 Revision 0

Manufacturer: Drager Safety AG & Co. KGaA

Model Number: X-Cal 2000

Description: Breath Alcohol Simulator

Serial Number: ARND-0003

ID: NONE

As-Found: In Tolerance

As-Left: In Tolerance

Issue Date: Oct 05, 2022

Calibration Date: Oct 05, 2022

Due Date: Oct 05, 2023

Calibrated To: Customer Specification

Calibration Procedure: 1-AC103519-1

Calibration Laboratories have been audited and found in compliance with ISO/IEC 17025:2017. Accredited calibrations performed within the Lab Scope of Accreditation are indicated by the presence of the Accrediting Body Certificate Number. Any measurements on an accredited calibration not covered by the Lab Scope of Accreditation are listed in the notes section of the certificate. SCC, NRC, CLAS or ANAB do not guarantee the accuracy of individual calibration by accredited laboratories.

Calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual QAC-P01-000, the customer Purchase Order and/or Quality Agreement requirements. ISO 9001:2015, ANSI/NCSL 1001:2002, and ISO 10012:2003, as applicable. When specified contractually, the requirements of ISO TS16949:2009, 10CFR21, 10CFR50 App. B, ASME NQA-1:2012, and ANSI/NCSL Z540.3-2006 (R2013) are also applicable.

Records of work performed are maintained by Transcat and are available for inspection. Laboratory standards used in the performance of this calibration are listed on this certificate.

Calibrations are performed in accordance with the requirements of the National Institute of Standards and Technology (NIST), or the National Research Council of Canada (NRC), or other national measurement institutes and their signatories to the CIPM Mutual Recognition Arrangement, or accepted fundamental and/or natural physical constants, or by the use of specified methods, consensus standards or ratio type measurements. Documentation supporting traceability information is available for review upon written request at a Transcat facility. The measured quantity and the measurement uncertainty are required for further dissemination of traceability.

Results are reported with a coverage factor k=2, providing a level of confidence of approximately 95%. All calibrations have been performed using processes having a TUR of 4:1 or better (3:1 for mass calibrations), unless otherwise noted. The Test Uncertainty Ratio (TUR) is calculated in accordance with NCSL International RP-18. For mass calibrations: Conventional mass referenced to 8.0 g/cm³.

Conditions in this report relate only to the item calibrated or tested. Recorded calibration data is valid at the time of calibration within the stated uncertainties at the environmental conditions noted. The determination of compliance to this certificate is specific to the model/serial no./ID no. referenced above based on the tolerances shown; these tolerances are either the original equipment manufacturers (OEM's) warranted specifications or the client's requested specifications. Any number of factors can cause a unit to drift out of tolerance at any time following its calibration. Limitations on the uses of this instrument are detailed in the OEM's operating instructions. This certificate may not be used except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).



Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
SO Number: US74302835073

Certificate/SO Number: 5-E0Z7D-160-1 Revision 0

As Found/As Left Data

Item	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	O	Cal Process Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
Checks										
check			P	P	P					
check			P	P	P					
ure Source: Accuracy Test										
Test	34.00°C	±(0.02 °C)	33.98	34.02	33.99 °C		2.2e-002	2.5e-002	°C	0.9 : 1
ure Source: Stability Test										
Test	0.00°C	±(0.02 °C)	-0.02	0.02	0.00 °C		5.0e-003	1.3e-002	°C	4.0 : 1

Field not applicable.

Traceable Standards

Item	Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use
2	AccuMac Corporation	AM1760-12-S	Secondary SPRT	10-Jan-22	31-Jan-23	15-&05H1259-3-1	AF/AL
	Hart Scientific/Fluke	1575	Super Thermometer	18-May-21	30-Nov-22	5-&HP927312-5-1	AF/AL

the standard is defined as: AF - used for as-found readings, AL - used for as-left readings.

Environmental Data

Parameter	Value	Lab Area	Lab Description
Temperature	21.45°C	G	Temperature
Relative Humidity	46.30%		



Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
ID Number: US74302835073

Certificate/SO Number: 5-E0Z7D-160-1 Revision 0

Decision Rule

Compliance statements are present, they are reported without factoring in the effects of uncertainty and comply with the guidelines as follows: The acceptance zone is defined as: less than or equal to the high limit, and/or greater than or equal to the low limit. The rejection zones are defined as greater than the high limit and/or less than the low limit. Single measurement results in the acceptance zone are identified as in-tolerance. Single measurement results in the rejection zone are identified as out-of-tolerance (OOT). When all measurement results are in the acceptance zone for repeated measurements, for the same characteristic, the test is identified as in-tolerance. For repeated characteristic measurements, a single measurement result in the rejection zone, will cause the test to be identified as out-of-tolerance (OOT). Data rejection for cause, (outliers) is permitted after the "Determining and Verifying Out Of Tolerance(OOT) and/or Op Fail Readings" procedure outlined in this document has been completed and the anomalous reading cannot be repeated, and the anomalous reading does not represent the system under test. Statements of conformity are binary.



Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
ID Number: US74302835073

Certificate/SO Number: 5-E0Z7D-160-1 Revision 0

Legend

Description
UUT specification that establishes expected tolerances and a time limit (calibration interval) over which the instrument is expected to hold these tolerances
Initial measurement results
Measurement results after adjustment and/or repair
Test is not applicable for the UUT
The uncertainty of calibration process for the reported measurement result
Indicates the date that the calibration was completed
A measure of uncertainty that defines an interval about the measurement result
Indicates the end of the calibration cycle as requested by the customer
Indicates the date that the calibration has passed the Data Review Process and was signed by an authorized signatory or the date that a revision to the original certificate has been issued
Establishes UUT acceptable performance limits for the test measurement
The dispersion of the values attributed to a measured quantity
Out of Acceptance (#)
Out of Tolerance (*)
Measurement target values
Unbroken chain of comparisons relating an instrument's measurements to a known standard(s)
Unique identifier(s) used to document traceability of calibration standards
Test Uncertainty Ratio, ratio of the tolerance or specification of the test measurement in relation to the uncertainty in measurement results
Unit Under test



Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
ID Number: US74302835073

Certificate/SO Number: 5-E0Z7D-160-1 Revision 0

At:
Row
: 77084

Facility Responsible:
16115 Park Row
Houston, TX 77084
800-828-1470



ed: October 03, 2022
el: R9

Calibrated By:

Electronically Signed By:
Camden Alford
Camden Alford
Oct 05, 2022
09:21:45 -04:00

Reviewed By:

Electronically Signed By:
Scott D. Caine
Scott D. Caine
Oct 05, 2022
09:45:00 -04:00



Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: US74302835073

Certificate/SO Number: 5-E0Z7D-220-1 Revision 0

Manufacturer: Mentor Corp
Model Number: CPG2300
Description: Portable Barometer
Serial Number: 41001275

ID: NONE

As-Found: In Tolerance
As-Left: In Tolerance

Issue Date: Oct 14, 2022

Calibration Date: Oct 14, 2022

Due Date: Oct 14, 2023

Calibrated To: Manufacturer Specification

Calibration Procedure: 1-AC107288-0

Calibration Laboratories have been audited and found in compliance with ISO/IEC 17025:2017. Accredited calibrations performed within the Lab Scope of Accreditation are indicated by the presence of the Accrediting Body Certificate Number. Any measurements on an accredited calibration not covered by the Lab Scope of Accreditation are listed in the notes section of the certificate. SCC, NRC, CLAS or ANAB do not guarantee the accuracy of individual calibration by accredited laboratories.

Calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual QAC-P01-000, the customer Purchase Order and/or Quality Agreement requirements, ISO 9001:2015, ANSI/INCSL 994 (R2002), and ISO 10012:2003, as applicable. When specified contractually, the requirements of ISO TS16949:2009, 10CFR21, 10CFR50 App. B, ASME NQA-1:2012, and ANSINCSSL Z540.3-2006 (R2013) are also

records of work performed are maintained by Transcat and are available for inspection. Laboratory standards used in the performance of this calibration are listed on this certificate.

documents the traceability of measurements to the SI units through the National Institute of Standards and Technology (NIST), or the National Research Council of Canada (NRC), or other national measurement institutes that are signatories to the CIPM Mutual Recognition Arrangement, or accepted fundamental and/or natural physical constants, or by the use of specified methods, consensus standards or ratio type measurements. Information supporting traceability information is available for review upon written request at a Transcat facility. The measured quantity and the measurement uncertainty are required for further dissemination of traceability.

ities are reported with a coverage factor $k=2$, providing a level of confidence of approximately 95%. All calibrations have been performed using processes having a TUR of 4:1 or better (3:1 for mass calibrations), unless noted. The Test Uncertainty Ratio (TUR) is calculated in accordance with NCSL International RP-18. For mass calibrations: Conventional mass referenced to 8.0 g/cm³.

its in this report relate only to the item calibrated or tested. Recorded calibration data is valid at the time of calibration within the stated uncertainties at the environmental conditions noted. The determination of compliance to specification is specific to the model/serial no./ID no. referenced above based on the tolerances shown; these tolerances are either the original equipment manufacturers (OEM's) warranted specifications or the client's requested tolerances. Any number of factors can cause a unit to drift out of tolerance at any time following its calibration. Limitations on the uses of this instrument are detailed in the OEM's operating instructions. This certificate may not be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).



Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
SO Number: US74302835073

Certificate/SO Number: 5-E0Z7D-220-1 Revision 0

As Found/As Left Data

Item	Setpoints	Accuracy	As Found/As Left		Cal Process Uncertainty (k=2; ±)	Measurement Uncertainty (k=2; ±)	Units	TUR
			Low Limit	High Limit				
Pressure Measure: 552 to 1172 mbara Range								
	550.1mbara	±(0.015% FS)	549.9	550.3	1.2e-002	1.2e-001	mbara	16.5 : 1
	610.0mbara	±(0.015% FS)	609.8	610.2	1.3e-002	1.2e-001	mbara	14.9 : 1
	680.4mbara	±(0.015% FS)	680.2	680.6	1.5e-002	1.2e-001	mbara	13.4 : 1
	734.3mbara	±(0.015% FS)	734.1	734.5	1.6e-002	1.2e-001	mbara	12.4 : 1
	804.7mbara	±(0.015% FS)	804.5	804.9	1.8e-002	1.2e-001	mbara	11.3 : 1
	864.9mbara	±(0.015% FS)	864.7	865.1	1.9e-002	1.2e-001	mbara	10.5 : 1
	924.9mbara	±(0.015% FS)	924.7	925.1	2.0e-002	1.2e-001	mbara	9.8 : 1
	985.2mbara	±(0.015% FS)	985.0	985.4	2.2e-002	1.2e-001	mbara	9.2 : 1
	1043.9mbara	±(0.015% FS)	1043.7	1044.1	2.3e-002	1.3e-001	mbara	8.7 : 1
	1114.2mbara	±(0.015% FS)	1114.0	1114.4	2.5e-002	1.2e-001	mbara	8.2 : 1
	1174.6mbara	±(0.015% FS)	1174.4	1174.8	2.6e-002	1.2e-001	mbara	7.7 : 1
	924.9mbara	±(0.015% FS)	924.7	925.1	2.0e-002	1.2e-001	mbara	9.8 : 1
	864.9mbara	±(0.015% FS)	864.7	865.1	1.9e-002	1.2e-001	mbara	10.5 : 1
	804.7mbara	±(0.015% FS)	804.5	804.9	1.8e-002	1.2e-001	mbara	11.3 : 1

Field not applicable.



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Traceable Standards

Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use
Fluke/DH Instruments	PG7601	Piston Gauge	12-Apr-22	12-Apr-23	5-&DW11BA-13-1	AF/AL
Fluke/DH Instruments	MS-AMH-38	AMH Mass Set	19-Sep-22	19-Dec-22	5-&DW11CA-18-1	AF/AL
Fluke/DH Instruments	PC-7100/7600-10-TC	Gas Piston-Cylinder Module	8-Apr-22	30-Apr-27	5-&DW11LOW-3-1	AF/AL
Fluke/DH Instruments	MS-AMH-38	AMH Mass Set	29-Dec-21	31-Dec-22	5-&DW11MASS-6-1	AF/AL

of the standard is defined as: AF - used for as-found readings, AL - used for as-left readings.

Environmental Data

perature	Relative Humidity	Temp / RH Asset	Lab Area	Lab Description
/21.72°C	52.20%	05H1297	B	GP Pressure

Decision Rule

n compliance statements are present, they are reported without factoring in the effects of uncertainty and comply with the guidelines as follows: The acceptance zone is defined as: less than or equal high limit, and/or greater than or equal to the low limit. The rejection zones are defined as greater than the high limit and/or less than the low limit. Single measurement results in the acceptance zone are identified as in-tolerance. Single measurement results in the rejection zone are identified as out-of-tolerance (OOT). When all measurement results are in the acceptance zone for repeated measurements, for the same characteristic, the test is identified as in-tolerance. For repeated characteristic measurements, a single measurement result in the rejection zone, will cause the test to be identified as out-of-tolerance (OOT). Data rejection for cause, (outliers) is permitted after the "Determining and Verifying Out Of Tolerance (OOT) and/or Op Fail Readings" procedure outlined in this document has been completed and the anomalous reading cannot be repeated, and the anomalous reading does not represent the system under test. Statements of conformity are binary.



Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: US74302835073

Certificate/SO Number: 5-E0Z7D-220-1 Revision 0

Legend

	Description
UUT	specification that establishes expected tolerances and a time limit (calibration interval) over which the instrument is expected to hold these tolerances
Initial measurement results	
Measurement results after adjustment and/or repair	
Test is not applicable for the UUT	
The uncertainty of calibration process for the reported measurement result	
Indicates the date that the calibration was completed	
A measure of uncertainty that defines an interval about the measurement result	
Indicates the end of the calibration cycle as requested by the customer	
Indicates the date that the calibration has passed the Data Review Process and was signed by an authorized signatory or the date that a revision to the original certificate has been issued	
Establishes UUT acceptable performance limits for the test measurement	
The dispersion of the values attributed to a measured quantity	
Out of Acceptance (#)	
Out of Tolerance (*)	
Measurement target values	
Unbroken chain of comparisons relating an instrument's measurements to a known standard(s)	
Unique identifier(s) used to document traceability of calibration standards	
Test Uncertainty Ratio, ratio of the tolerance or specification of the test measurement in relation to the uncertainty in measurement results	
Unit Under test	

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
SO Number: US74302835073



Certificate/SO Number: 5-E0Z7D-220-1 Revision 0

Facility:
16115 Park Row
TX 77084

Facility Responsible:
16115 Park Row
Houston, TX 77084
800-828-1470



Issued: October 03, 2022
Level: R9

Calibrated By:
Fritz Cardona

Electronically Signed By:
Fritz Cardona
Calibration Technician
Oct 14, 2022 09:53:35 -04:00

Reviewed By:
Josh Soileau for

Electronically Signed By:
Scott D. Caine
Lab Manager
Oct 14, 2022 14:53:44 -04:00

Certificate - Page 5 of 5

Customer Number: 1-659111-00C
OPS-F20-014R10 09/29/21 FP001R9 4/9/2021

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Sales order: 1111663404

Date: July 05, 2022

NJSP DEPT OF LAW AND PUBLIC SAFETY

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.

CALGAZ LOT#: 302-402448281

ETHANOL IN NITROGEN

Product Expiration: May 19, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	263.2	(0.101)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38434	260.4

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Calibration test 283190, 283189, 283188, or 283192 dated 6th January 2022 applies

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND38434-20211028, A679, A650, ND38462-20211027, ND18363-20211104, ND50144-20201218

No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: May 19, 2022

APPROVED BY:



"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC

821 Chesapeake Drive, Cambridge, MD 21613-0149

Phone: (410) 228-6400 Fax: (410) 228-4251

ANALYSIS CERTIFICATION

METHOD OF PREPARATION : GRAVIMETRIC / PRESSURE TRANSFILLING

METHOD OF ANALYSIS : IR Breath Alcohol Analyzer

ACCURACY : ± 0.002 BrAC or $\pm 2\%$ whichever is greater.

LOT NO. & QTY.	COMP. 1 C ₂ H ₅ OH	COMP. 2 N ₂	COMP. 3	COMP. 4	COMP. 5	COMP. 6	Exp Date
1486624 (8)	104.2PPM (0.040 BrAC)	BALANCE					04/26/24

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited Company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Calibration test 219908, 219911, 219909, or 219926 dated, 6th January 2021 applies.

WEIGHT SETS USED: Kit#80141, Test#3094344A, Kit#106, 27, 103, 107, 113, 22, Test#VA-21-12587-L,F,T,P, Kit#IM1966, Test#VA-21-12587N, Kit#35, 104, 39, 105, 108, 109, 111 Test#VA-21-12587-I.

No affecting environmental conditions during analysis.

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

REQUESTED BY : DRAEGER INC

CUSTOMER PURCHASE ORDER NUMBER : US44302368647

PACKING LIST NUMBER : 21272590

CERTIFICATION DATE : April 26, 2024

ANALYSIS BY : Steven Plutschek
Quality Representative

"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC
821 Chesapeake Drive, Cambridge, MD 21613-0149
Phone: (410)228-6400 Fax: (410)228-4251

ANALYSIS CERTIFICATION

METHOD OF PREPARATION : GRAVIMETRIC / PRESSURE TRANSFILLING

METHOD OF ANALYSIS : IR Breath Alcohol Analyzer

ACCURACY : ± 0.002 BrAC or $\pm 2\%$ whichever is greater.

LOT NO. & QTY.	COMP. 1	COMP. 2	COMP. 3	COMP. 4	COMP. 5	COMP. 6	Exp Date
1346773 (24)	208.4PPM (0.080 BrAC)	BALANCE					07/08/23

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited Company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Calibration test 121088, 121097, 121091, or 121100 dated, 18th January 2019 applies.

WEIGHT SETS USED: Kit #92231, Test #2740564, Kit # 03610, Test # VA-19-1135 T3 Test # VA-19-11350B, T5 Test #VA-19-11350F, VA-19-11350E, VA-19-11350D, IM1966 Test VA-18-11340H

No affecting environmental conditions during analysis.

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

REQUESTED BY : DRAEGER INC

CUSTOMER PURCHASE ORDER NUMBER : UH54302105642

PACKING LIST NUMBER : 16572762

CERTIFICATION DATE : July 8, 2020

ANALYSIS BY : Steve Plutschel
Quality Representative

"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC
821 Chesapeake Drive, Cambridge, MD 21613-0149
Phone: (410) 228-6400 Fax: (410) 228-4251

**CERTIFICATE OF ANALYSIS
EBS - ETHANOL BREATH STANDARD**

DRAEGER INC HOUSTON
HOUSTON, TX 77085

REF#: 22053560
DOC#: US44302425104
CUST. ITEM #: 4401040
DATE: Jul. 16, 2021

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 1523726
ETHANOL IN NITROGEN

PRODUCT EXPIRATION: Jul. 16, 2024

COMPONENT	PPM	(BrAC)
ETHANOL	416.8	(0.160)
NITROGEN	BAL	

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND50144	260.6

* Certification traceability is recognized by NIST through the CIPM MRA.

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Calibration test 219908, 219911, 219909, or 219926 dated, 6th January 2021 applies.

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND50144-20201218, A679, ND18363-20191203, A650

No affecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

MANUFACTURED DATE: Jul. 16, 2021

CALGAZ CYLINDER SIZE: 6D

APPROVED BY : 

"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CERTIFICATE OF ANALYSIS
EBS - ETHANOL BREATH STANDARD

DRAEGER INC HOUSTON
HOUSTON, TX 77085

REF#: 21775602
DOC#: US44302405855
CUST. ITEM #: 4401041
DATE: Jun. 23, 2021

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 1511968
ETHANOL IN NITROGEN

PRODUCT EXPIRATION: Jun. 21, 2024

COMPONENT	PPM	(BrAC)
ETHANOL	781.5	(0.300)
NITROGEN	BAL	

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND50144	260.6

* Certification traceability is recognized by NIST through the CIPM MRA.

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Calibration test 219908, 219911, 219909, or 219926 dated, 6th January 2021 applies.

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND50144-20201218, A679, ND18363-20191203, A650

No affecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

MANUFACTURED DATE: Jun. 21, 2021

CALGAZ CYLINDER SIZE: 6D

APPROVED BY :



"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC

821 Chesapeake Drive, Cambridge, MA 02142

DEPARTMENT OF
Law and Public Safety
 This is to certify that

Nicholas E. Mimikos

New Jersey State Police

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSES PURSUANT TO CHAPTER 142 OF

THE LAWS OF 1986 IN THE OPERATION OF THE Alcotest 9510

A METHOD TO DETERMINE INTOXICATION GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 8th DAY OF June

TWO THOUSAND AND Twenty One

[Signature]
 COLONEL
 NEW JERSEY STATE POLICE

[Signature]
 ATTORNEY GENERAL
 STATE OF NEW JERSEY

DEPARTMENT OF
Law and Public Safety
 This is to certify that

Nicholas E. Mimikos

Breath Test Coordinator/Instructor

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSES PURSUANT TO CHAPTER 142 OF

THE LAWS OF 1986 IN THE OPERATION OF THE Alcotest 9510

A METHOD TO DETERMINE INTOXICATION GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 8th DAY OF June

TWO THOUSAND AND Twenty One

[Signature]
 COLONEL
 NEW JERSEY STATE POLICE

[Signature]
 ATTORNEY GENERAL
 STATE OF NEW JERSEY

ORIGINAL COURSE DATES

	DATE	Refresher Course PLACE	INSTRUCTOR
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			

S.P. 293B (Rev. 01/18)

ORIGINAL COURSE DATES

	DATE	Refresher Course PLACE	INSTRUCTOR
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			

S.P. 293B (Rev. 01/18)