FDLE
Florida Department of Law Enforcement

INSTRUMENT PROCESSING SHEET

Agency Broward County Sheriff's Office S/N 80-006924

Date In 5/27/2021 DI Completion Date 5/27/2021 ☐Ship ■P/U ☐H/D ☐CMI ☐EE

Intake By DERR

- ■ Annual
- ☐ Registration
- ☐ Return from CMI / EE

Visual Inspection:

- ■ Case ■ Handle
- ■ Keyboard ■ Dry Gas Shelf
- ■ Feet ■ Breath Tube
- ■ Ports ■ Screws Tight

Other Equipment/ Accessories:

- ☐ Power cord ☐ Printer Cable
- ☐ Static Bag ☐ 12V DC Cable

Notes:

Quality Checks By DER Date 5/27/2021

- ■ Breath Tube Screen
- ■ Replace External O-Rings
- ■ Instrument Set Up Verified
- ■ R-Value 112
- ■ Flow Verification (L/s)

Flow Column # ATP104

32 mm 0.121 (.139 - .169)
36 mm 0.144 (.156 - .190)
53 mm 0.218 (.228 - .278)
103 mm 0.492 (.447 - .547)

- ■ Barometric Pressure Check

Gauge ID # 28663

- ■ Stability Checks

Simulator	Serial #	Lot #/Exp
0.050	SD3967	202010A
		10/05/2022
0.080	SD3968	202010B
		10/05/2022
0.200	SD3969	202010D
		10/06/2022
0.080 DGS	N/A	AG026705
		09/23/2022

Flow Calibration By DER Date 5/27/2021

Flow Column # ATP106

- ■ 5L/min – 17mm
- ■ 15L/min – 53mm
- ■ 30L/min – 103mm
- ■ R-Value 114
- ■ Post Calibration Verification (L/s)

Flow Column # ATP104

32 mm 0.140 (.139 - .169)
36 mm 0.164 (.156 - .190)
53 mm 0.234 (.228 - .278)
103 mm 0.507 (.447 - .547)

Maintenance By

- ☐ Battery Replacement
- ☐ Dry Gas Regulator Replacement
- ☐ Breath Tube Replacement
- ☐ Other

DI Temp. Checks By DERR

- ■ Lab Temp °C 22.09C

External Digital Therm. ID#: 300503

- ■ 34°C +-.2 Serial #: SD3967
- ■ 34°C +-.2 Serial #: SD3968
- ■ 34°C +-.2 Serial #: SD3969

Calibration Adjustment By DERR

Barometric Pressure Gauge 1019 ID # 68639

Simulator	Serial #	Lot #	Expiration
0.000	MP5095	N/A	N/A
0.040	MP5096	20060	2/10/2022
0.100	MP5098	20420	09/22/2022
0.200	MP5100	20160	03/18/2022
0.300	MP5101	20030	01/21/2022
0.080 DGS	N/A	00521080A2	02/05/2023

- ■ Post Calibration Adjustment Stability Checks

Simulator	Serial #	Lot #	Expiration
0.050	SD3967	202010A	10/05/2022
0.080	SD3968	202010B	10/05/2022
0.200	SD3969	202010D	10/06/2022
0.080 DGS	N/A	AG026705	09/23/2022

Department Inspection By DERR

Barometric Pressure ID# 28199

Gauge 1019 Instrument 1019

Mouth Alcohol Solution Lot # 2021-A

Acetone Stock Solution Lot # 2020-A

Simulator	Serial Number
0.000	SD3965
Interferent	SD3866
0.050	SD3967
0.080	SD3968
0.200	SD3969

Attachments

- ■ Form 41
- ■ Stability Checks
- ■ Calibration Certificate
- ■ Calibration Adjustment
- ■ Post-Stability Checks
- ■ Flow Calibration
- ☐ Form 40
- ☐ Other

Notes/Suggested Service: Optical calibration to bring values closer to nominal. I had to re-run the 0.040 solution. DERR

- ■ **Instrument Complies with Chapter 11D-8, FAC**
- ☐ **Instrument Does Not Comply with Chapter 11D-8, FAC**
- ■ **Return to/Place into Evidentiary Use**
- ☐ **Remain Out of Evidentiary Use**
- ■ **Conduct an Agency Inspection Before Evidentiary Use**

Michael D Haughey 2021.06.14 15:11:09 -04'00' — Tech Review / Date

Admin Review / Date — Date: 2021.06.14 15:16:57 -04'00'

Calibration Certificate

Florida Department of Law Enforcement
Alcohol Testing Program
4700 Terminal Drive, Suite 1
Ft. Myers, FL 33907

This is to certify the calibration of Intoxilyzer 8000 serial number 80-006924 , manufactured by CMI, Inc. was calibrated in accordance with FDLE/ATP Form 36 - Department Inspection Procedures - Intoxilyzer 8000.

Serial Number:	80-006924
Owning Agency:	BROWARD COUNTY SO
Calibration Date:	05/27/2021
Calibration Time:	12:17

	UNCERTAINTY* ±
0.050 g/ 210 L	0.005
0.080 g/ 210 L	0.004
0.200 g/ 210 L	0.007
0.080 g/ 210 L Dry Gas Control	0.005

All results are reported in g/ 210 L.
Bias is limited by calibration acceptance criteria. All calibration results must be within ± 0.005 or 5%, whichever is greater, of the target alcohol concentration.
*Uncertainty is based on fleet-wide data and is expressed to a 99.73% level of confidence (k=3).
The instrument results before and after any adjustment are found in the associated pre and post stability checks.

TRACEABILITY INFORMATION
This instrument was calibrated using solutions prepared by Alcohol Countermeasure Systems, Inc. (ACS). ACS prepared and certified these CRMs in accordance with ISO 17034 and ISO/ IEC 17025 Standards.

Simulator temperatures are traceable to NIST. Thermometer temperatures are checked with NIST traceable Eutechnics 4400 digital thermometers calibrated by Precision Metrology in accordance with ISO/ IEC 17025 standards.

Dry gas control measurements are traceable to NIST through the uses of CRMs supplied by an accredited CRM supplier. The supplier of dry gas standard controls prepared and certified the CRMs in accordance with ISO Guide 34 and ISO/ IEC 17025 standards.

05/27/2021
Date

DAVID E REYES-RIVERA,
Department Inspector

Florida Department of Law Enforcement
Alcohol Testing Program

DEPARTMENT INSPECTION REPORT - INTOXILYZER 8000

Agency: BROWARD COUNTY SO
Serial Number: 80-006924
Time of Inspection: 12:17
Date of Inspection: 05/27/2021
Software: 8100.27

Check or Test	YES	NO	Check or Test	YES	NO
Diagnostic Check (Pre-Inspection): OK	Yes		Date and/or Time Adjusted		No
Minimum Sample Volume Check: OK	Yes		Barometric Pressure Sensor Check: OK	Yes	
Alcohol Free Subject Test: 0.000	Yes		Mouth Alcohol Test: Slope Not Met	Yes	
Interferent Detect Test: Interferent Detect	Yes		Diagnostic Check (Post-Inspection): OK	Yes	

Alcohol Free Test (g/210L)	0.05g/210L Test (g/210L) Lot#:202010A Exp: 10/05/2022	0.08g/210L Test (g/210L) Lot#:202010B Exp: 10/05/2022	0.20g/210L Test (g/210L) Lot#:202010D Exp: 10/06/2022	0.08 g/210L Dry Gas Std Test (g/210L) Lot#:AG026705 Exp: 09/23/2022
0.000	0.047	0.078	0.195	0.080
0.000	0.049	0.079	0.198	0.080
0.000	0.048	0.079	0.198	0.079
0.000	0.049	0.079	0.198	0.080
0.000	0.048	0.079	0.198	0.079
0.000	0.048	0.079	0.198	0.080
0.000	0.048	0.079	0.198	0.080
0.000	0.049	0.079	0.197	0.079
0.000	0.048	0.080	0.197	0.080
0.000	0.048	0.079	0.197	0.079

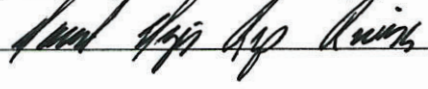
Standard Deviations	0.0006	0.0004	0.0009	0.0005

Average Standard Deviation of 0.05, 0.08 and 0.20 g/210L Tests: 0.0006 Number of Simulators Used: 5

Remarks:

The above instrument complies (X) does not comply ( ) with Chapter 11D-8, FAC.

I certify that I performed this inspection in accordance with the provisions of Chapter 11D-8, FAC.



DAVID E REYES-RIVERA
Signature and Printed Name

05/27/2021
Date

FDLE/ATP Form 41 –Revised August 2005

Type of Test	Serial Number	Agency	Date	Performed By
Post Stabilities	80-006924	Broward County Sheriff's Office	5/27/2021	DERR

0.05g/210L ✓

0.047 to 0.053 ✓

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:20
Control Test	0.048	10:21
Air Blank	0.000	10:21
Control Test	0.049	10:22
Air Blank	0.000	10:22
Control Test	0.050	10:23
Air Blank	0.000	10:24

Control Test Stats

Average	0.0490
Std Dev	0.0010
Rel Std Dev(%)	2.0408

Operator's Signature

0.08g/210L ✓

0.077 to 0.083 ✓

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:25
Control Test	0.078	10:25
Air Blank	0.000	10:26
Control Test	0.078	10:27
Air Blank	0.000	10:27
Control Test	0.078	10:28
Air Blank	0.000	10:28

Control Test Stats

Average	0.0780
Std Dev	0.0000
Rel Std Dev(%)	0.0000

Operator's Signature

0.20g/210L ✓

0.194 to 0.206 ✓

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:30
Control Test	0.195	10:31
Air Blank	0.000	10:32
Control Test	0.198	10:32
Air Blank	0.000	10:33
Control Test	0.197	10:34
Air Blank	0.000	10:34

Control Test Stats

Average	0.1967
Std Dev	0.0015
Rel Std Dev(%)	0.7767

Operator's Signature

DGS 0.08g/210L ✓

0.077 to 0.083 ✓

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:35
Control Test	0.079	10:35
Air Blank	0.000	10:36
Control Test	0.078	10:36
Air Blank	0.000	10:37
Control Test	0.079	10:37
Air Blank	0.000	10:38

Control Test Stats

Average	0.0787
Std Dev	0.0006
Rel Std Dev(%)	0.7339

Operator's Signature

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021 09:25:35

Auto Calibration
Max Power Res Value = 82
Auto Range Res Value = 55

Sol Value = 0.000 g/210L ***
Fit value = 0.0000 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12589, 9um Io = 12783

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.0480	(0.0010)
Sample #2 =	0.1170	(0.0040)
Sample #3 =	0.0250	(0.0640)
Sample #4 =	0.0760	(0.0590)

Avg % Abs = 0.0727 (0.0423)
STD DEV = 0.0461 (0.0333)
REL STD DEV = 63.427 (78.642)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.0790	(0.0240)
Sample #2 =	0.1380	(0.0180)
Sample #3 =	0.1250	(0.0230)
Sample #4 =	0.1290	(0.0160)

Avg % Abs = 0.1307 (0.0190)
STD DEV = 0.0067 (0.0036)
REL STD DEV = 5.096 (18.977)

Sol Value = 0.040 g/210L ***
Fit value = 0.1905 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12576, 9um Io = 12778

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.7550	(0.0020)
Sample #2 =	0.7800	(0.0230)
Sample #3 =	0.8090	(0.0070)
Sample #4 =	0.7360	(0.0530)

Avg % Abs = 0.7750 (0.0277)
STD DEV = 0.0368 (0.0234)
REL STD DEV = 4.743 (84.406)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.4340	(0.0150)
Sample #2 =	1.4530	(0.0100)
Sample #3 =	1.4850	(-0.0040)
Sample #4 =	1.4160	(0.0180)

Avg % Abs = 1.4513 (0.0080)
STD DEV = 0.0345 (0.0111)
REL STD DEV = 2.379 (139.194)

Sol Value = 0.040 g/210L ***
Fit value = 0.1905 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12569, 9um Io = 12772

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.7460	(-0.0020)
Sample #2 =	0.7740	(0.0100)
Sample #3 =	0.7890	(0.0220)
Sample #4 =	0.7720	(0.0310)

Avg % Abs = 0.7783 (0.0210)
STD DEV = 0.0093 (0.0105)
REL STD DEV = 1.194 (50.170)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.4530	(-0.0210)
Sample #2 =	1.4840	(-0.0420)
Sample #3 =	1.4460	(-0.0010)
Sample #4 =	1.4620	(-0.0060)

Avg % Abs = 1.4640 (-0.0163)
STD DEV = 0.0191 (0.0224)
REL STD DEV = 1.303 (136.948)

Sol Value = 0.100 g/210L ***
Fit value = 0.4762 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12565, 9um Io = 12772

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.8610	(-0.0100)
Sample #2 =	1.8030	(0.0190)
Sample #3 =	1.8520	(-0.0060)
Sample #4 =	1.8000	(0.0350)

Avg % Abs = 1.8183 (0.0160)
STD DEV = 0.0292 (0.0207)
REL STD DEV = 1.606 (129.150)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.4210	(0.0000)
Sample #2 =	3.3760	(0.0240)
Sample #3 =	3.4440	(0.0010)
Sample #4 =	3.3880	(0.0250)

Avg % Abs = 3.4027 (0.0167)
STD DEV = 0.0363 (0.0136)
REL STD DEV = 1.067 (81.462)

Sol Value = 0.200 g/210L ***
Fit value = 0.9524 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12561, 9um Io = 12768

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.5830	(-0.0230)
Sample #2 =	3.5740	(0.0000)
Sample #3 =	3.5710	(0.0110)
Sample #4 =	3.5430	(0.0390)

Avg % Abs = 3.5627 (0.0167)
STD DEV = 0.0171 (0.0201)
REL STD DEV = 0.480 (120.648)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	6.5220	(-0.0250)
Sample #2 =	6.4750	(0.0040)
Sample #3 =	6.4870	(0.0050)
Sample #4 =	6.4940	(0.0240)

Avg % Abs = 6.4853 (0.0110)
STD DEV = 0.0096 (0.0113)
REL STD DEV = 0.148 (102.449)

Optical Calibration
SN: 80-006924
Agency: Broward County SO
Date: 5/27/2021
Quadratic Fit: +/- 0.002g/210L
By: DERR

Sol Value = 0.300 g/210L ***
Fit value = 1.4286 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12555, 9um Io = 12766

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	5.1450	(-0.0080)
Sample #2 =	5.1540	(-0.0070)
Sample #3 =	5.1390	(0.0190)
Sample #4 =	5.1420	(0.0190)

Avg % Abs = 5.1450 (0.0103)
STD DEV = 0.0079 (0.0150)
REL STD DEV = 0.154 (145.269)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	9.3430	(0.0090)
Sample #2 =	9.3850	(0.0010)
Sample #3 =	9.3160	(0.0150)
Sample #4 =	9.3520	(0.0160)

Avg % Abs = 9.3510 (0.0107)
STD DEV = 0.0345 (0.0084)
REL STD DEV = 0.369 (78.623)

***** AUTO CAL DATA *****

<<<<< CHANNEL 1 >>>>>

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.073
Std Dev = 0.05 Rel Std Dev = 63.43
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 0.778
Std Dev = 0.01 Rel Std Dev = 1.19
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 1.818
Std Dev = 0.03 Rel Std Dev = 1.61
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 3.563
Std Dev = 0.02 Rel Std Dev = 0.48
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 5.145
Std Dev = 0.01 Rel Std Dev = 0.15
Zero Order Coef = -156.86
First Order Coef = 2597.43
Second Order Coef = 39.67
Standard Deviation = 55.118656

Sol Value = 0.080 g/210L ***
Fit value = 0.3810 mg/l %%%%
Samples Taken = 4, Discarded = 1
***** CHANNEL 1
Sample #1 = 3145.00
Sample #2 = 3190.00
Sample #3 = 3193.00
Sample #4 = 3125.00
Average Result = 3169.3333
STD DEV = 38.4231
REL STD DEV = 1.212
****
***** CHANNEL 2
Sample #1 = 3267.00
Sample #2 = 3278.00
Sample #3 = 3301.00
Sample #4 = 3240.00
Average Result = 3273.0000
STD DEV = 30.8058
REL STD DEV = 0.941
****
Dry Gas H20 Adjust Results **********
Barometric Pressure = 1020
3 um H20 Adjust (mg/l*10,000) = 640
9 um H20 Adjust (mg/l*10,000) = 536
**** AUTO CAL PASS

Type of Test	Serial Number	Agency	Date	Performed By
Stabilities	80-006924	Broward County Sheriff's Office	5/27/2021	DERR

0.05g/210L	0.08g/210L	0.20g/210L	DGS 0.08g/210L
0.047 to 0.053 ☒	0.077 to 0.083 ☒	0.194 to 0.206 ☒	0.077 to 0.083 ☑

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:23
Control Test	0.046	08:24
Air Blank	0.000	08:25
Control Test	0.048	08:25
Air Blank	0.000	08:26
Control Test	0.046	08:27
Air Blank	0.000	08:27

Control Test Stats

Average	0.0467
Std Dev	0.0012
Rel Std Dev(%)	2.4744

Operator's Signature

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:28
Control Test	0.077	08:29
Air Blank	0.000	08:30
Control Test	0.076	08:30
Air Blank	0.000	08:31
Control Test	0.077	08:32
Air Blank	0.000	08:32

Control Test Stats

Average	0.0767
Std Dev	0.0006
Rel Std Dev(%)	0.7531

Operator's Signature

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:33
Control Test	0.193	08:34
Air Blank	0.000	08:34
Control Test	0.192	08:35
Air Blank	0.000	08:36
Control Test	0.193	08:36
Air Blank	0.000	08:37

Control Test Stats

Average	0.1927
Std Dev	0.0006
Rel Std Dev(%)	0.2997

Operator's Signature

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:38
Control Test	0.077	08:38
Air Blank	0.000	08:39
Control Test	0.078	08:39
Air Blank	0.000	08:40
Control Test	0.077	08:40
Air Blank	0.000	08:41

Control Test Stats

Average	0.0773
Std Dev	0.0006
Rel Std Dev(%)	0.7466

Operator's Signature

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Flow Rate Calibration********
1: Rate (Liters/min) = 5
SQRT(Diff)) = 5.656
2: Rate (Liters/min) = 15
SQRT(Diff)) = 10.582
3: Rate (Liters/min) = 30
SQRT(Diff)) = 20.344
Dependent Data Scale Factor = 100000 L/min
Independent Data Scale Factor = 256
Rounded Slope = 656
Rounded Intercept = -380491
Correlation = 0.99734

Flow Calibration	
SN:	80-0006924
Agency:	Broward County Sheriff's Office
Date:	5/27/2021
By:	DERR

INSTRUMENT PROCESSING SHEET

FDLE Florida Department of Law Enforcement

Agency Broward County Sheriff's Office S/N 80-006924

Date In 5/27/2021 DI Completion Date 5/27/2021 ☐Ship ■P/U ☐H/D ☐CMI ☐EE

Intake By DERR

- ■ Annual
- ☐ Registration
- ☐ Return from CMI / EE

Visual Inspection:

- ■ Case ■ Handle
- ■ Keyboard ■ Dry Gas Shelf
- ■ Feet ■ Breath Tube
- ■ Ports ■ Screws Tight

Other Equipment/ Accessories:

- ☐ Power cord ☐ Printer Cable
- ☐ Static Bag ☐ 12V DC Cable

Notes:

Quality Checks By DER Date 5/27/2021

- ■ Breath Tube Screen
- ■ Replace External O-Rings
- ■ Instrument Set Up Verified
- ■ R-Value 112
- ■ Flow Verification (L/s)

Flow Column # ATP104

32 mm	0.121	(.139 - .169)
36 mm	0.144	(.156 - .190)
53 mm	0.218	(.228 - .278)
103 mm	0.492	(.447 - .547)

- ■ Barometric Pressure Check

Gauge ID # 28663

- ■ Stability Checks

Simulator	Serial #	Lot #/Exp
0.050	SD3967	202010A
		10/05/2022
0.080	SD3968	202010B
		10/05/2022
0.200	SD3969	202010D
		10/06/2022
0.080 DGS	N/A	AG026705
		09/23/2022

Flow Calibration By DER Date 5/27/2021

Flow Column # ATP106

- ■ 5L/min – 17mm
- ■ 15L/min – 53mm
- ■ 30L/min – 103mm
- ■ R-Value 114
- ■ Post Calibration Verification (L/s)

Flow Column # ATP104

32 mm	0.140	(.139 - .169)
36 mm	0.164	(.156 - .190)
53 mm	0.234	(.228 - .278)
103 mm	0.507	(.447 - .547)

Maintenance By

- ☐ Battery Replacement
- ☐ Dry Gas Regulator Replacement
- ☐ Breath Tube Replacement
- ☐ Other

DI Temp. Checks By DERR

- ■ Lab Temp °C 22.09C

External Digital Therm. ID#: 300503

- ■ 34°C +-.2 Serial #: SD3967
- ■ 34°C +-.2 Serial #: SD3968
- ■ 34°C +-.2 Serial #: SD3969

Calibration Adjustment By DERR

Barometric Pressure Gauge 1019 ID # 68639

Simulator	Serial #	Lot #	Expiration
0.000	MP5095	N/A	N/A
0.040	MP5096	20060	2/10/2022
0.100	MP5098	20420	09/22/2022
0.200	MP5100	20160	03/18/2022
0.300	MP5101	20030	01/21/2022
0.080 DGS	N/A	00521080A2	02/05/2023

- ■ Post Calibration Adjustment Stability Checks

Simulator	Serial #	Lot #	Expiration
0.050	SD3967	202010A	10/05/2022
0.080	SD3968	202010B	10/05/2022
0.200	SD3969	202010D	10/06/2022
0.080 DGS	N/A	AG026705	09/23/2022

Department Inspection By DERR

Barometric Pressure ID# 28199

Gauge 1019 Instrument 1019

Mouth Alcohol Solution Lot # 2021-A

Acetone Stock Solution Lot # 2020-A

Simulator	Serial Number
0.000	SD3965
Interferent	SD3866
0.050	SD3967
0.080	SD3968
0.200	SD3969

Attachments

- ■ Form 41
- ■ Stability Checks
- ■ Calibration Certificate
- ■ Calibration Adjustment
- ■ Post-Stability Checks
- ■ Flow Calibration
- ☐ Form 40
- ☐ Other

Notes/Suggested Service: Optical calibration to bring values closer to nominal. I had to re-run the 0.040 solution. DERR

- ■ **Instrument Complies with Chapter 11D-8, FAC**
- ☐ **Instrument Does Not Comply with Chapter 11D-8, FAC**
- ■ **Return to/Place into Evidentiary Use**
- ☐ **Remain Out of Evidentiary Use**
- ■ **Conduct an Agency Inspection Before Evidentiary Use**

Michael D Haughey 2021.05.27 12:43:31 -04'00' — Tech Review / Date

Admin Review / Date: Date: 2021.05.27 13:32:30 -04'00'

Calibration Certificate

Florida Department of Law Enforcement
Alcohol Testing Program
4700 Terminal Drive, Suite 1
Ft. Myers, FL 33907

This is to certify the calibration of Intoxilyzer 8000 serial number 80-006924 , manufactured by CMI, Inc. was calibrated in accordance with FDLE/ATP Form 36 - Department Inspection Procedures - Intoxilyzer 8000.

Serial Number:	80-006924
Owning Agency:	BROWARD COUNTY SO
Calibration Date:	05/27/2021
Calibration Time:	12:17

	UNCERTAINTY* ±
0.050 g/ 210 L	0.005
0.080 g/ 210 L	0.004
0.200 g/ 210 L	0.007
0.080 g/ 210 L Dry Gas Control	0.005

All results are reported in g/ 210 L.
Bias is limited by calibration acceptance criteria. All calibration results must be within ± 0.005 or 5%, whichever is greater, of the target alcohol concentration.
*Uncertainty is based on fleet-wide data and is expressed to a 99.73% level of confidence (k=3).
The instrument results before and after any adjustment are found in the associated pre and post stability checks.

TRACEABILITY INFORMATION
This instrument was calibrated using solutions prepared by Alcohol Countermeasure Systems, Inc. (ACS). ACS prepared and certified these CRMs in accordance with ISO 17034 and ISO/ IEC 17025 Standards.

Simulator temperatures are traceable to NIST. Thermometer temperatures are checked with NIST traceable Eutechnics 4400 digital thermometers calibrated by Precision Metrology in accordance with ISO/ IEC 17025 standards.

Dry gas control measurements are traceable to NIST through the uses of CRMs supplied by an accredited CRM supplier. The supplier of dry gas standard controls prepared and certified the CRMs in accordance with ISO Guide 34 and ISO/ IEC 17025 standards.

05/27/2021
Date

DAVID E REYES-RIVERA,
Department Inspector

Florida Department of Law Enforcement
Alcohol Testing Program

DEPARTMENT INSPECTION REPORT - INTOXILYZER 8000

Agency: BROWARD COUNTY SO
Serial Number: 80-006924
Time of Inspection: 12:17
Date of Inspection: 05/27/2021
Software: 8100.27

Check or Test	YES	NO	Check or Test	YES	NO
Diagnostic Check (Pre-Inspection): OK	Yes		Date and/or Time Adjusted		No
Minimum Sample Volume Check: OK	Yes		Barometric Pressure Sensor Check: OK	Yes	
Alcohol Free Subject Test: 0.000	Yes		Mouth Alcohol Test: Slope Not Met	Yes	
Interferent Detect Test: Interferent Detect	Yes		Diagnostic Check (Post-Inspection): OK	Yes	

Alcohol Free Test (g/210L)	0.05g/210L Test (g/210L) Lot#:202010A Exp: 10/05/2022	0.08g/210L Test (g/210L) Lot#:202010B Exp: 10/05/2022	0.20g/210L Test (g/210L) Lot#:202010D Exp: 10/06/2022	0.08 g/210L Dry Gas Std Test (g/210L) Lot#:AG026705 Exp: 09/23/2022
0.000	0.047	0.078	0.195	0.080
0.000	0.049	0.079	0.198	0.080
0.000	0.048	0.079	0.198	0.079
0.000	0.049	0.079	0.198	0.080
0.000	0.048	0.079	0.198	0.079
0.000	0.048	0.079	0.198	0.080
0.000	0.048	0.079	0.198	0.080
0.000	0.049	0.079	0.197	0.079
0.000	0.048	0.080	0.197	0.080
0.000	0.048	0.079	0.197	0.079
Standard Deviations	0.0006	0.0004	0.0009	0.0005

Average Standard Deviation of 0.05, 0.08 and 0.20 g/210L Tests: 0.0006 Number of Simulators Used: 5

Remarks:

The above instrument complies (X) does not comply ( ) with Chapter 11D-8, FAC.

I certify that I performed this inspection in accordance with the provisions of Chapter 11D-8, FAC.

DAVID E R EY ES-R IVER
Signature and Printed Name

05/27/2021
Date

FDLE/ATP Form 41 –Revised August 2005

Type of Test	Serial Number	Agency	Date	Performed By
Post Stabilities	80-006924	Broward County Sheriff's Office	5/27/2021	DERR

0.05g/210L ✓

0.047 to 0.053 ✓

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:20
Control Test	0.048	10:21
Air Blank	0.000	10:21
Control Test	0.049	10:22
Air Blank	0.000	10:22
Control Test	0.050	10:23
Air Blank	0.000	10:24

Control Test Stats

Average	0.0490
Std Dev	0.0010
Rel Std Dev(%)	2.0408

Operator's Signature

0.08g/210L ✓

0.077 to 0.083 ✓

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:25
Control Test	0.078	10:25
Air Blank	0.000	10:26
Control Test	0.078	10:27
Air Blank	0.000	10:27
Control Test	0.078	10:28
Air Blank	0.000	10:28

Control Test Stats

Average	0.0780
Std Dev	0.0000
Rel Std Dev(%)	0.0000

Operator's Signature

0.20g/210L ✓

0.194 to 0.206 ✓

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:30
Control Test	0.195	10:31
Air Blank	0.000	10:32
Control Test	0.198	10:32
Air Blank	0.000	10:33
Control Test	0.197	10:34
Air Blank	0.000	10:34

Control Test Stats

Average	0.1967
Std Dev	0.0015
Rel Std Dev(%)	0.7767

Operator's Signature

DGS 0.08g/210L ✓

0.077 to 0.083 ✓

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	10:35
Control Test	0.079	10:35
Air Blank	0.000	10:36
Control Test	0.078	10:36
Air Blank	0.000	10:37
Control Test	0.079	10:37
Air Blank	0.000	10:38

Control Test Stats

Average	0.0787
Std Dev	0.0006
Rel Std Dev(%)	0.7339

Operator's Signature

<<<<< CHANNEL 2 >>>>>
Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.131
Std Dev = 0.01 Rel Std Dev = 5.10
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 1.464
Std Dev = 0.02 Rel Std Dev = 1.30
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 3.403
Std Dev = 0.04 Rel Std Dev = 1.07
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 6.485
Std Dev = 0.01 Rel Std Dev = 0.15
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 9.351
Std Dev = 0.03 Rel Std Dev = 0.37
Zero Order Coef = -173.18
First Order Coef = 1390.14
Second Order Coef = 16.61
Standard Deviation = 12.578969

Solution Stats Quadratic Fit Chan 1

Act g/210L	Fit g/210L	Residual g/210L
0.000	0.001	-0.0007
0.040	0.040	0.0003
0.100	0.099	0.0014
0.200	0.202	-0.0016
0.300	0.299	0.0006

Solution Stats Quadratic Fit Chan 2

Act g/210L	Fit g/210L	Residual g/210L
0.000	0.000	-0.0002
0.040	0.040	0.0002
0.100	0.100	0.0003
0.200	0.200	-0.0004
0.300	0.300	0.0002

Optical Calibration
SN: 80-006924
Agency: Broward County SO
Date: 5/27/2021
Quadratic Fit: +/- 0.002g/210L
By: DERR

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021 09:25:35

Auto Calibration
Max Power Res Value = 82
Auto Range Res Value = 55

Sol Value = 0.000 g/210L ***
Fit value = 0.0000 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12589, 9um Io = 12783

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.0480	(0.0010)
Sample #2 =	0.1170	(0.0040)
Sample #3 =	0.0250	(0.0640)
Sample #4 =	0.0760	(0.0590)

Avg % Abs = 0.0727 (0.0423)
STD DEV = 0.0461 (0.0333)
REL STD DEV = 63.427 (78.642)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.0790	(0.0240)
Sample #2 =	0.1380	(0.0180)
Sample #3 =	0.1250	(0.0230)
Sample #4 =	0.1290	(0.0160)

Avg % Abs = 0.1307 (0.0190)
STD DEV = 0.0067 (0.0036)
REL STD DEV = 5.096 (18.977)

Sol Value = 0.040 g/210L ***
Fit value = 0.1905 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12576, 9um Io = 12778

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.7550	(0.0020)
Sample #2 =	0.7800	(0.0230)
Sample #3 =	0.8090	(0.0070)
Sample #4 =	0.7360	(0.0530)

Avg % Abs = 0.7750 (0.0277)
STD DEV = 0.0368 (0.0234)
REL STD DEV = 4.743 (84.406)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.4340	(0.0150)
Sample #2 =	1.4530	(0.0100)
Sample #3 =	1.4850	(-0.0040)
Sample #4 =	1.4160	(0.0180)

Avg % Abs = 1.4513 (0.0080)
STD DEV = 0.0345 (0.0111)
REL STD DEV = 2.379 (139.194)

Sol Value = 0.040 g/210L ***
Fit value = 0.1905 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12569, 9um Io = 12772

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	0.7460	(-0.0020)
Sample #2 =	0.7740	(0.0100)
Sample #3 =	0.7890	(0.0220)
Sample #4 =	0.7720	(0.0310)

Avg % Abs = 0.7783 (0.0210)
STD DEV = 0.0093 (0.0105)
REL STD DEV = 1.194 (50.170)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.4530	(-0.0210)
Sample #2 =	1.4840	(-0.0420)
Sample #3 =	1.4460	(-0.0010)
Sample #4 =	1.4620	(-0.0060)

Avg % Abs = 1.4640 (-0.0163)
STD DEV = 0.0191 (0.0224)
REL STD DEV = 1.303 (136.948)

Sol Value = 0.100 g/210L ***
Fit value = 0.4762 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12565, 9um Io = 12772

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	1.8610	(-0.0100)
Sample #2 =	1.8030	(0.0190)
Sample #3 =	1.8520	(-0.0060)
Sample #4 =	1.8000	(0.0350)

Avg % Abs = 1.8183 (0.0160)
STD DEV = 0.0292 (0.0207)
REL STD DEV = 1.606 (129.150)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.4210	(0.0000)
Sample #2 =	3.3760	(0.0240)
Sample #3 =	3.4440	(0.0010)
Sample #4 =	3.3680	(0.0250)

Avg % Abs = 3.4027 (0.0167)
STD DEV = 0.0363 (0.0136)
REL STD DEV = 1.067 (81.462)

Sol Value = 0.200 g/210L ***
Fit value = 0.9524 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12561, 9um Io = 12768

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	3.5830	(-0.0230)
Sample #2 =	3.5740	(0.0000)
Sample #3 =	3.5710	(0.0110)
Sample #4 =	3.5430	(0.0390)

Avg % Abs = 3.5627 (0.0167)
STD DEV = 0.0171 (0.0201)
REL STD DEV = 0.480 (120.648)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	6.5220	(-0.0250)
Sample #2 =	6.4750	(0.0040)
Sample #3 =	6.4870	(0.0050)
Sample #4 =	6.4940	(0.0240)

Avg % Abs = 6.4853 (0.0110)
STD DEV = 0.0096 (0.0113)
REL STD DEV = 0.148 (102.449)

Optical Calibration
SN: 80-006924
Agency: Broward County SO
Date: 5/27/2021
Quadratic Fit: +/- 0.002g/210L
By: DERR

Sol Value = 0.300 g/210L ***
Fit value = 1.4286 mg/l %%%%
Samples Taken = 4, Discarded = 1
3um Io = 12555, 9um Io = 12766

<<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	5.1450	(-0.0080)
Sample #2 =	5.1540	(-0.0070)
Sample #3 =	5.1390	(0.0190)
Sample #4 =	5.1420	(0.0190)

Avg % Abs = 5.1450 (0.0103)
STD DEV = 0.0079 (0.0150)
REL STD DEV = 0.154 (145.269)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1 =	9.3430	(0.0090)
Sample #2 =	9.3850	(0.0010)
Sample #3 =	9.3160	(0.0150)
Sample #4 =	9.3520	(0.0160)

Avg % Abs = 9.3510 (0.0107)
STD DEV = 0.0345 (0.0084)
REL STD DEV = 0.369 (78.623)

***** AUTO CAL DATA *****

<<<<< CHANNEL 1 >>>>>

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.073
Std Dev = 0.05 Rel Std Dev = 63.43
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 0.778
Std Dev = 0.01 Rel Std Dev = 1.19
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 1.818
Std Dev = 0.03 Rel Std Dev = 1.61
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 3.563
Std Dev = 0.02 Rel Std Dev = 0.48
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 5.145
Std Dev = 0.01 Rel Std Dev = 0.15
Zero Order Coef = -156.86
First Order Coef = 2597.43
Second Order Coef = 39.67
Standard Deviation = 55.118656

Sol Value = 0.080 g/210L ***
Fit value = 0.3810 mg/l %%%%
Samples Taken = 4, Discarded = 1
***** CHANNEL 1
Sample #1 = 3145.00
Sample #2 = 3190.00
Sample #3 = 3193.00
Sample #4 = 3125.00
Average Result = 3169.3333
STD DEV = 38.4231
REL STD DEV = 1.212
****
***** CHANNEL 2
Sample #1 = 3267.00
Sample #2 = 3278.00
Sample #3 = 3301.00
Sample #4 = 3240.00
Average Result = 3273.0000
STD DEV = 30.8058
REL STD DEV = 0.941
****
Dry Gas H20 Adjust Results **********
Barometric Pressure = 1020
3 um H20 Adjust (mg/l*10,000) = 640
9 um H20 Adjust (mg/l*10,000) = 536
**** AUTO CAL PASS

Type of Test	Serial Number	Agency	Date	Performed By
Stabilities	80-006924	Broward County Sheriff's Office	5/27/2021	DERR

0.05g/210L	0.08g/210L	0.20g/210L	DGS 0.08g/210L
0.047 to 0.053 ✗	0.077 to 0.083 ✗	0.194 to 0.206 ✗	0.077 to 0.083 ✓

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:23
Control Test	0.046	08:24
Air Blank	0.000	08:25
Control Test	0.048	08:25
Air Blank	0.000	08:26
Control Test	0.046	08:27
Air Blank	0.000	08:27
Control Test Stats		
Average	0.0467	
Std Dev	0.0012	
Rel Std Dev(%)	2.4744	

Operator's Signature

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:28
Control Test	0.077	08:29
Air Blank	0.000	08:30
Control Test	0.076	08:30
Air Blank	0.000	08:31
Control Test	0.077	08:32
Air Blank	0.000	08:32
Control Test Stats		
Average	0.0767	
Std Dev	0.0006	
Rel Std Dev(%)	0.7531	

Operator's Signature

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:33
Control Test	0.193	08:34
Air Blank	0.000	08:34
Control Test	0.192	08:35
Air Blank	0.000	08:36
Control Test	0.193	08:36
Air Blank	0.000	08:37
Control Test Stats		
Average	0.1927	
Std Dev	0.0006	
Rel Std Dev(%)	0.2997	

Operator's Signature

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	08:38
Control Test	0.077	08:38
Air Blank	0.000	08:39
Control Test	0.078	08:39
Air Blank	0.000	08:40
Control Test	0.077	08:40
Air Blank	0.000	08:41
Control Test Stats		
Average	0.0773	
Std Dev	0.0006	
Rel Std Dev(%)	0.7466	

Operator's Signature

BROWARD COUNTY SO
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-006924
05/27/2021
Software: 8100.27

Flow Rate Calibration********
1: Rate (Liters/min) = 5
SQRT(Diff)) = 5.656
2: Rate (Liters/min) = 15
SQRT(Diff)) = 10.582
3: Rate (Liters/min) = 30
SQRT(Diff)) = 20.344
Dependent Data Scale Factor = 100000 L/min
Independent Data Scale Factor = 256
Rounded Slope = 656
Rounded Intercept = -380491
Correlation = 0.99734

Flow Calibration	
SN:	80-0006924
Agency:	Broward County Sheriff's Office
Date:	5/27/2021
By:	DERR