



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 80-005077, manufactured by CMI, Inc. was calibrated in accordance with FDLE/ATP Form 36 - Department Inspection Procedures - Intoxilyzer 8000.

Serial Number:	<u>80-005077</u>	UNCERTAINTY* $\pm$	
Owning Agency:	<u>NORTH MIAMI PD</u>	0.050 g/ 210 L	0.005
Calibration Date:	<u>02/15/2021</u>	0.080 g/ 210 L	0.004
Calibration Time:	<u>10:48</u>	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. This document shall not be reproduced except in full, without written approval of the Florida Department of Law Enforcement Alcohol Testing Program.

02/15/2021

Date


DAVID E REYES-RIVERA,

Department Inspector

FDLE/ATP Form 69 January 2021

Issuing Authority: Alcohol Testing Program

Service • Integrity • Respect • Quality

Florida Department of Law Enforcement Alcohol Testing Program

DEPARTMENT INSPECTION REPORT - INTOXILYZER 8000

Agency: NORTH MIAMI PD
Time of Inspection: 10:48

Date of Inspection: 02/15/2021

Serial Number: 80-005077
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#:AG003005 Exp: 01/30/2022
0.000	0.049	0.079	0.197	0.080
0.000	0.049	0.080	0.199	0.080
0.000	0.049	0.079	0.199	0.080
0.000	0.049	0.079	0.199	0.080
0.000	0.049	0.079	0.199	0.080
0.000	0.049	0.080	0.199	0.080
0.000	0.049	0.079	0.199	0.081
0.000	0.049	0.080	0.199	0.080
0.000	0.050	0.080	0.200	0.080
0.000	0.049	0.080	0.200	0.081

Standard Deviations	0.0003	0.0005	0.0008	0.0004
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Average Standard Deviation of 0.05, 0.08 and 0.20 g/210L Tests: 0.0005 Number of Simulators Used: 5

Remarks:

The above instrument complies (☒) 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 DAVID E REYES-RIVERA
Signature and Printed Name

02/15/2021
Date

Type of Test	Serial Number	Agency	Date	Performed By
Post Stabilities	80-005077	North Miami Police Department	2/15/2021	DERR <i>hll</i>

0.05g/210L	0.08g/210L	0.20g/210L	DGS 0.08g/210L
0.047 to 0.053 ☒ NORTH MIAMI PD Intoxilyzer - Alcohol Analyzer Model 8000 SN 80-005077 02/15/2021 Software: 8100.27 Test g/210L Time Air Blank 0.000 08:44 Control Test 0.047 08:45 Air Blank 0.000 08:46 Control Test 0.049 08:46 Air Blank 0.000 08:47 Control Test 0.049 08:48 Air Blank 0.000 08:48 Control Test Stats Average 0.0483 Std Dev 0.0012 Rel Std Dev(%) 2.3890 Operator's Signature <i>hll</i>	0.077 to 0.083 ☒ NORTH MIAMI PD Intoxilyzer - Alcohol Analyzer Model 8000 SN 80-005077 02/15/2021 Software: 8100.27 Test g/210L Time Air Blank 0.000 08:49 Control Test 0.078 08:50 Air Blank 0.000 08:50 Control Test 0.078 08:51 Air Blank 0.000 08:51 Control Test 0.078 08:52 Air Blank 0.000 08:53 Control Test Stats Average 0.0780 Std Dev 0.0000 Rel Std Dev(%) 0.0000 Operator's Signature <i>hll</i>	0.194 to 0.206 ☒ NORTH MIAMI PD Intoxilyzer - Alcohol Analyzer Model 8000 SN 80-005077 02/15/2021 Software: 8100.27 Test g/210L Time Air Blank 0.000 08:54 Control Test 0.200 08:54 Air Blank 0.000 08:55 Control Test 0.199 08:56 Air Blank 0.000 08:56 Control Test 0.199 08:57 Air Blank 0.000 08:57 Control Test Stats Average 0.1993 Std Dev 0.0006 Rel Std Dev(%) 0.2896 Operator's Signature <i>hll</i>	0.077 to 0.083 ☒ NORTH MIAMI PD Intoxilyzer - Alcohol Analyzer Model 8000 SN 80-005077 02/15/2021 Software: 8100.27 Test g/210L Time Air Blank 0.000 08:58 Control Test 0.080 08:59 Air Blank 0.000 08:59 Control Test 0.079 08:59 Air Blank 0.000 09:00 Control Test 0.080 09:00 Air Blank 0.000 09:01 Control Test Stats Average 0.0797 Std Dev 0.0006 Rel Std Dev(%) 0.7247 Operator's Signature <i>hll</i>

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

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

Sample % Abs (% Abs Ref)
Sample #1 = 6.9370 (-0.0170)
Sample #2 = 6.9320 (-0.0120)
Sample #3 = 6.8870 (-0.0120)
Sample #4 = 6.9240 (-0.0080)
Avg % Abs = 6.9143 (-0.0027)
STD DEV = 0.0240 (-0.0129)
REL STD DEV = 0.347 (482.183)

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

Sol Value = 0.300 g/210L ***
Fit Value = 1.4286 mg/l %%%
Samples Taken = 4, Discarded = 1
Sum Io = 12618, Sum Io = 13178
Avg % Abs = 5.3423 (-0.0280)
STD DEV = 0.1129 (-0.0183)
REL STD DEV = 0.241 (65.455)

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

Sample % Abs (% Abs Ref)
Sample #1 = 9.9850 (-0.0100)
Sample #2 = 9.9430 (-0.0120)
Sample #3 = 9.9280 (-0.0270)
Sample #4 = 9.9380 (-0.0300)
Avg % Abs = 9.9363 (-0.0230)
STD DEV = 0.0076 (-0.0036)
REL STD DEV = 0.077 (41.929)

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

Sol Value = 0.200 g/210L ***
Fit Value = 0.9524 mg/l %%%
Samples Taken = 4, Discarded = 1
Sum Io = 12624, Sum Io = 13179
Avg % Abs = 3.6710 (-0.0040)
STD DEV = 0.0090 (-0.0050)
REL STD DEV = 0.077 (41.929)

Optical Calibration

SN: 80-005077
Agency: North Miami PD
Date: 02/15/2021
Quadratic Fit: +/- 0.002g/210L
By: DERR *full*

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

Sample % Abs (% Abs Ref)
Sample #1 = 1.5260 (-0.0230)
Sample #2 = 1.5230 (-0.0000)
Sample #3 = 1.5260 (-0.0030)
Sample #4 = 1.5460 (-0.0000)
Avg % Abs = 1.5317 (-0.0010)
STD DEV = 0.0125 (-0.0017)
REL STD DEV = 0.816 (173.205)

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

Sol Value = 0.100 g/210L ***
Fit Value = 0.4762 mg/l %%%
Samples Taken = 4, Discarded = 1
Sum Io = 12633, Sum Io = 13186
Avg % Abs = 1.8747 (-0.0227)
STD DEV = 0.0150 (-0.0100)
REL STD DEV = 0.803 (44.191)

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

Sample % Abs (% Abs Ref)
Sample #1 = 3.6010 (-0.0130)
Sample #2 = 3.5840 (-0.0130)
Sample #3 = 3.5960 (-0.0180)
Sample #4 = 3.6360 (-0.0040)
Avg % Abs = 3.6053 (-0.0023)
STD DEV = 0.0272 (-0.0060)
REL STD DEV = 0.755 (258.331)

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

Sol Value = 0.200 g/210L ***
Fit Value = 0.9524 mg/l %%%
Samples Taken = 4, Discarded = 1
Sum Io = 12624, Sum Io = 13179
Avg % Abs = 3.6710 (-0.0040)
STD DEV = 0.0090 (-0.0050)
REL STD DEV = 0.077 (41.929)

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

Sample % Abs (% Abs Ref)
Sample #1 = 3.6710 (-0.0040)
Sample #2 = 3.6960 (-0.0050)
Sample #3 = 3.6490 (-0.0180)
Sample #4 = 3.7010 (-0.0140)
Avg % Abs = 3.6820 (-0.0090)
STD DEV = 0.0287 (-0.0123)
REL STD DEV = 0.779 (136.536)

NORTH MIAMI PD

Innovalyzer - Alcohol Analyzer

Model 8000

12/15/2021

SN 80-005077

08:00:40

Auto Calibration

Max Power Res Value = 33

Auto Range Res Value = 21

Sol Value = 0.000 g/210L ***

Fit Value = 0.0000 mg/l %%%

Samples Taken = 4, Discarded = 1

Sum Io = 12665, Sum Io = 13199

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

Sample % Abs (% Abs Ref)
Sample #1 = 0.0310 (-0.0080)
Sample #2 = 0.0760 (-0.0260)
Sample #3 = 0.0410 (-0.0100)
Sample #4 = 0.0470 (-0.0180)
Avg % Abs = 0.0547 (-0.0177)
STD DEV = 0.0187 (-0.0490)
REL STD DEV = 34.239 (59.942)

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

Sample % Abs (% Abs Ref)
Sample #1 = 0.0910 (-0.0070)
Sample #2 = 0.1100 (-0.0040)
Sample #3 = 0.1160 (-0.0270)
Sample #4 = 0.0940 (-0.0420)
Avg % Abs = 0.1067 (-0.0217)
STD DEV = 0.0114 (-0.0255)
REL STD DEV = 10.662 (108.273)

Sol Value = 0.040 g/210L ***

Fit Value = 0.1905 mg/l %%%

Samples Taken = 4, Discarded = 1

Sum Io = 12643, Sum Io = 13189

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

Sample % Abs (% Abs Ref)
Sample #1 = 0.7790 (-0.0040)
Sample #2 = 0.7680 (-0.0150)
Sample #3 = 0.7860 (-0.0200)
Sample #4 = 0.7730 (-0.0510)
Avg % Abs = 0.7757 (-0.0287)
STD DEV = 0.0093 (-0.0195)
REL STD DEV = 1.198 (58.931)

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

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.055
Std Dev = 0.02 Rel Std Dev = 34.24
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 0.776
Std Dev = 0.01 Rel Std Dev = 1.20
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 1.875
Std Dev = 0.02 Rel Std Dev = 0.80
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 3.682
Std Dev = 0.03 Rel Std Dev = 0.78
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 5.342
Std Dev = 0.01 Rel Std Dev = 0.24
Zero Order Coef = -96.72
First Order Coef = 2504.78
Second Order Coef = 34.19
Standard Deviation = 49.616581

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

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.107
Std Dev = 0.01 Rel Std Dev = 10.66
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 1.532
Std Dev = 0.01 Rel Std Dev = 0.82
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 3.605
Std Dev = 0.03 Rel Std Dev = 0.76
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 6.914
Std Dev = 0.02 Rel Std Dev = 0.35
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 9.936
Std Dev = 0.01 Rel Std Dev = 0.08
Zero Order Coef = -120.58
First Order Coef = 1289.15
Second Order Coef = 16.03
Standard deviation = 25.625364

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

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.055
Std Dev = 0.02 Rel Std Dev = 34.24
Sol Val = 0.1905 mg/l or 0.040 g/210L
% Abs = 0.776
Std Dev = 0.01 Rel Std Dev = 1.20
Sol Val = 0.4762 mg/l or 0.100 g/210L
% Abs = 1.875
Std Dev = 0.02 Rel Std Dev = 0.80
Sol Val = 0.9524 mg/l or 0.200 g/210L
% Abs = 3.682
Std Dev = 0.03 Rel Std Dev = 0.78
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 5.342
Std Dev = 0.01 Rel Std Dev = 0.24
Zero Order Coef = -96.72
First Order Coef = 2504.78
Second Order Coef = 34.19
Standard Deviation = 49.616581

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

Sol Val = 0.0000 mg/l or 0.000 g/210L
% Abs = 0.107
Std Dev = 0.01 Rel Std Dev = 10.66
Sol Val = 0.1905 mg/l or 0.040 g/210L
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% Abs = 3.605
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% Abs = 6.914
Std Dev = 0.02 Rel Std Dev = 0.35
Sol Val = 1.4286 mg/l or 0.300 g/210L
% Abs = 9.936
Std Dev = 0.01 Rel Std Dev = 0.08
Zero Order Coef = -120.58
First Order Coef = 1289.15
Second Order Coef = 16.03
Standard deviation = 25.625364

Solution Stats Quadratic Fit Chan 2

Act Fit Residual
g/210L g/210L g/210L
0.000 0.000 -0.0004
0.040 0.040 0.0003
0.100 0.099 0.0006
0.200 0.201 -0.0007
0.300 0.300 0.0003

Sol Value = 0.7000 g/210L ***

Fit Value = 0.3610 mg/l %%%

Samples Taken = 4, Discarded = 1

***** CHANNEL 1 *****

Sample #1 = 3400.00
Sample #2 = 3491.00
Sample #3 = 3513.00
Sample #4 = 3473.00
Average Result = 3492.3333
STD DEV = 20.0333
REL STD DEV = 0.574

***** CHANNEL 2 *****

Sample #1 = 3333.00
Sample #2 = 3366.00
Sample #3 = 3359.00
Sample #4 = 3364.00
Average Result = 3363.0000
STD DEV = 3.6055
REL STD DEV = 0.107

***** CHANNEL 1 *****

Dry Gas H2O Adjust Results *****
Barometric Pressure = 1014
3 um H2O Adjust (mg/l*10,000) = 317
9 um H2O Adjust (mg/l*10,000) = 445

***** AUTO CAL PASS *****

Type of Test	Serial Number	Agency	Date	Performed By
Stabilities	80-005077	North Miami Police Department	2/15/2021	DERR <i>per</i>

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 ☒
NORTH MIAMI PD Intoxilyzer - Alconol Analyzer Model 8000 02/15/2021 Software: 8100.27 Test g/210L Time Air Blank 0.000 07:42 Control Test 0.047 07:43 Air Blank 0.000 07:43 Control Test 0.048 07:44 Air Blank 0.000 07:45 Control Test 0.049 07:45 Air Blank 0.000 07:45 Control Test Stats Average 0.0480 Std Dev 0.0010 Rel Std Dev(%) 2.0833	NORTH MIAMI PD Intoxilyzer - Alconol Analyzer Model 8000 02/15/2021 Software: 8100.27 Test g/210L Time Air Blank 0.000 07:47 Control Test 0.078 07:48 Air Blank 0.000 07:48 Control Test 0.078 07:49 Air Blank 0.000 07:49 Control Test 0.078 07:50 Air Blank 0.000 07:51 Control Test Stats Average 0.0780 Std Dev 0.0000 Rel Std Dev(%) 0.0000	NORTH MIAMI PD Intoxilyzer - Alconol Analyzer Model 8000 02/15/2021 Software: 8100.27 Test g/210L Time Air Blank 0.000 07:52 Control Test 0.196 07:52 Air Blank 0.000 07:53 Control Test 0.197 07:53 Air Blank 0.000 07:54 Control Test 0.198 07:55 Air Blank 0.000 07:55 Control Test Stats Average 0.1970 Std Dev 0.0010 Rel Std Dev(%) 0.5076	NORTH MIAMI PD Intoxilyzer - Alconol Analyzer Model 8000 02/15/2021 Software: 8100.27 Test g/210L Time Air Blank 0.000 07:56 Control Test 0.073 07:56 Air Blank 0.000 07:57 Control Test 0.079 07:57 Air Blank 0.000 07:58 Control Test 0.079 07:58 Air Blank 0.000 07:59 Control Test Stats Average 0.0790 Std Dev 0.0000 Rel Std Dev(%) 0.0000
<i>per</i> Operator's Signature	<i>per</i> Operator's Signature	<i>per</i> Operator's Signature	<i>per</i> Operator's Signature