Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

#### INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number:	80-006666	Location: TOXL
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- Flow Sensor Calibration and Verification Check (Level 3,M,C,F 1. Replaced o-rings if damaged ADMS) (VELI) Α.

  - Flow Meter Serial Number: 55260 2.
  - Air Supplied to Intoxilyzer® 8000 at: 3.
  - ★Flow Rate Calibration Printout Attached 4. ☑ Correlation ≥ 0.99000
  - Flow Sensor Calibration Verification (Level 3,D,F) 5.
    - 10 L/min: 0. 167L/S X 60 Sec/min = 10.02 L/min
    - 20 L/min:  $0.\overline{324}$  L/S X 60 Sec/min = 19.44 L/min b.
    - Flow Rates within ± 1 L/min of Expected Value
- B.
  - Gas Tank Sensor Check (Level 3,D,G)

    1. Display: 885 psi Regulator: 900 psi
  - 2.
  - 3. Completed tare of tank sensor if needed (Level 3,M,C,G)
- C. Optical Bench Calibration and Verification Check (Level 3,M,C,O)
  - XAutocalibration Printout Attached
    - Max Power Res Value ≥ 10
    - XAuto Range Res Value ≥ 4
  - Simulator Solutions for Optical Bench Calibration Adjustment 2.

✓ Set # Solutions to Run at 5

Soln.	g/210 L		Lot No.	Exp. Date	Simulator SN
1	0.000 (ACTHAL		NA – MilliQ H₂O	NA – MilliQ H <sub>2</sub> O	MP3057
2	0.040	(0.040)	20060	2.10.22	MP3059
3	0.080	(0.080)	20330	7.1.22	MP5318
4	0.100	(0.099)	19370	12.9.21	MP3003
5	0.300	(0.298)	20030	1.21.22	mp3069

- 3. 0.100 AC Calibration Gas for H2O Adjustment
  - Lot No. 07220100 A1 Cyl No. 4 Exp. Date: 5.5.22
- 4. Atmospheric Pressure
  - 926 mbar Displayed by Intoxilyzer® 8000
  - 956 mbar Adjusted to using barometer b.
  - 956 mbar on Auto Calibration Report printout
- X Screen displayed "Calibration Success" 5.

# OFFICE OF ATTORNEY GENERAL CRIME LABORATORY DIVISION

Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

6. 🕱 Calibration Adj	ustment Printout Attached
	1 Avg % Abs ≤ 0.2500
	2-5 REL STD DEV ≤ 3.000
	l (g/210 L) Values for Solutions 1-5 ≤ 0.0020 for 3
	um channels
	H2O Adjustment Sum for 3 μm and 9 μm
channels v	
Average	H <sub>2</sub> O Adjust
	+ 331 = 4761
9 μm 4309	+ 452 = 4761
7. Optical Bench	Calibration Verification (Level 1, S and C)
a. Wet Calibration C	
i. Low AC K	nown Value ≤ 0.03 AC: <u>0 • 0,2 0</u> AC
Sim. SN: _	MP3064Lot No.: 20070 Exp. Date: 2.13.22
ii. High AC K	(nown Value ≥ 0.25 AC: 0.300 AC
Sim. SN:	MP5317 Lot No.: <u>202001 B</u> Exp. Date: 1.28.22
h Dry Calibration C	heck: Known Value 0 08 AC
Lot No. <u>24119 (</u>	080A1 Cyl No. 5 Exp. Date: 11.5.21
Test 1 <b>0.08</b> <u>L</u> AC	C Test 4 <u>0.682</u> AC Test / <u>6.682</u> AC
Test 2 <u>0.082</u> AC	Test 5 0.081 AC Test 8 0.081 AC
	Test 6 <u>0.081</u> AC Test 9 <u>0.082</u> AC
Average <u>©.08</u> [/	AC
,	
c. X Wet Calibration	Check and Dry Calibration Check AC results are
	± 5% (whichever is greater) of stated value.
	CALIBRATION ADJUSTMENT TESTING
D. Remarks/Maintenance:	CACIBICATION ADJUSTMENT
for Proficiency	1ESTING
Vinstrument is acceptable to be used	I in the field
x Instrument is acceptable to be used	i iii tiie neid.
	$-\frac{1}{2}$
( Sullette	- // //2/
Breath Analyst Signature	Date
A / N_	A
// // // // // // // // // // // // //	/V / \
Reviewed by	Date

CMI, Inc. Intoxilyzer Alcohol Analyzer North Dakota Model 8000 SN 80-006666 Location = TOXL 8164.14.00 09/16 07/07/2021

Flow Rate Calibration\*\*\*\*\*\*

1: Rate (Liters/min) = 5 SQRT(Diff)) = 6.707

2: Rate (Liters/min) = 15 SQRT(Diff)) = 12.566

3: Rate (Liters/min) = 30 SQRT(Diff)) = 22.020

Dependent Data Scale Factor = 100000 L/min Independent Data Scale Factor = 256 Rounded Slope = 636

Rounded Intercept = -574580Correlation = 0.99981

Charles Ed

15:57

Auto Calibration pg 1 of 2

	<<<<	3um >>>>	<<<<	9um >>>>
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV		or 0.0000 mg/l, (% Abs Ref) (-0.0140) (0.0400) (0.1150) (0.1290) (0.0947) (0.0479) (50.554)	Samples = 4, % Abs 0.1430 0.1660 0.1320 0.1570 0.1517 0.0176 11.615	Discarded = 1 (% Abs Ref) (0.0030) (0.0110) (0.0470) (0.0400) (0.0327) (0.0191) (58.431)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV		or 0.1905 mg/l, (% Abs Ref) (0.0040) (0.0230) (0.0440) (0.0620) (0.0430) (0.0195) (45.394)	Samples = 4, % Abs 1.5100 1.5090 1.5280 1.5180 1.5183 0.0095 0.626	Discarded = 1 (% Abs Ref) (0.0250) (0.0340) (0.0380) (0.0410) (0.0377) (0.0035) (9.324)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV		or 0.3810 mg/l, (% Abs Ref) (-0.0070) (0.0310) (0.0380) (0.0280) (0.0297) (0.0015) (5.149)		Discarded = 1 (% Abs Ref) (-0.0150) (0.0170) (0.0270) (0.0240) (0.0227) (0.0051) (22.639)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	% Abs 1.8550 1.8200 1.8720 1.8320 1.8413 0.0272	or 0.4714 mg/l, (% Abs Ref) (-0.0280) (0.0040) (-0.0080) (0.0000) (-0.0013) (0.0061) (458.258)	Samples = 4, % Abs 3.5610 3.5420 3.5760 3.5560 3.5580 0.0171 0.480	(% Abs Ref) (-0.0110) (0.0180) (0.0000) (0.0090) (0.0090)
Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs	% Abs 5.2170 5.1800 5.1910 5.2130 5.1947 0.0168	(-0.0120) (-0.0470) (-0.0820)	% Abs 9.7560 9.7310 9.7540 9.7650 9.7500	

TOXL

Intoxilyzer - Alcohol Analyzer

Model 8000

SN 80-006666

07/07/2021

16:02:35

#### Auto Calibration

pg 2 of 2

	<<<<	3um	>>>>	<<<<	9um	>>>>
Zero Order C First Order Second Order	Coef 26	29.99		-1 13 13.		
(g/210L 0.000 0.040 0.080 0.099	0.001 0.001 0.031 0.071	OL) 1 9 9 0	(g/210L) -0.0007 0.0010 0.0011 -0.0015	0.000 0.040 0.080 0.099	(g/21 0.00 0.04 0.07 0.10	.0L) (g/210L) 00 -0.0004 0 0.0005
	<<<<	3um	>>>>	<<<<	9um	>>>>
Solution = $0.100 \text{ g/}210\text{L}$ or $0.4762 \text{ mg/l}$ , Samples = 4, Discarded = 1 Sample						
Sample #1		44	189.00		437	5.00
Sample #2		44	115.00		428	8.00
Sample #3			157.00			9.00
Sample #4			119.00			.2.00
Avg			130.3335		430	
STD DEV			3.1805			5994
REL STD DEV		0 .	. 523		0.4	78

Atmospheric Pressure = 956

H2O adjust (mg/l\*10k)

Mada 

331

ntoxilyzer - Alcohol Analyzer nodel 8000 SN 80-006666

07/07/2021 16:02:35

Auto Calibration Max Power Res Value = 47 Olito Danno Per Hallie = 24

452

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
07/07/2021

SN 80-006666 8164.14.00 09/16 16:43

#### WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	16:44
02 Std. Sol.	0.018	16:45
03 Room Air	0.000	16:45
04 Std. Sol.	0.018	16:46
05 Room Air	0.000	16:46
06 Std. Sol.	0.019	16:47
07 Room Air	0.000	16:48

 $08 \text{ Sim Temp} = 34.0^{\circ}\text{C}$ 

Simul Ser No = MP3064 Std Sol No = 20070

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

Form 106-I8000

0.020 AC

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
07/07/2021

Alcohol Analyzer SN 80-006666 8164.14.00 09/16 16:53

### WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	16:54
02 Std. Sol.	0.293	16:55
03 Room Air	0.000	16:55
04 Std. Sol.	0.293	16:56
05 Room Air	0.000	16:56
06 Std. Sol.	0.294	16:57
07 Room Air	0.000	16:58

 $08 \text{ Sim Temp} = 34.0^{\circ}\text{C}$ 

Simul Ser No = MP5317 Std Sol No = 202001B

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

Form 106-I8000

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
07/07/2021

Alcohol Analyzer SN 80-006666 8164.14.00 09/16 16:59

### DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	17:00
02 Std. Gas	0.081	17:00
03 Room Air	0.000	17:00
04 Std. Gas	0.082	17:01
05 Room Air	0.000	17:01
06 Std. Gas	0.081	17:02
07 Room Air	0.000	17:02

Lot No = 24119080A1

Cyl No = 5

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature
CHARLES EDER

CALIBRATION CHECK

O.080AC

Remarks:

Form 106-I8000

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 07/07/2021

Alcohol Analyzer SN 80-006666 8164.14.00 09/16 17:02

### DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	17:03
02 Std. Gas	0.082	17:03
03 Room Air	0.000	17:04
04 Std. Gas	0.081	17:04
05 Room Air	0.000	17:05
06 Std. Gas	0.081	17:05
07 Room Air	0.000	17:05

Lot No = 24119080A1

Cyl No = 5

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature

CHARLES EDER

AUBRATION CWECK

0-0-80 AC

Form 106-I8000

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
07/07/2021

Alcohol Analyzer SN 80-006666 8164.14.00 09/16 17:06

## DRY CAL CHECK

T	est		AC	Time
01	Room	Air	0.000	17:06
02	Std.	Gas	0.082	17:06
03	Room	Air	0.000	17:07
04	Std.	Gas	0.081	17:07
05	Room	Air	0.000	17:08
06	Std.	Gas	0.082	17:08
07	Room	Air	0.000	17:09

Lot No = 24119080A1

Cyl No = 5

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature

Domarka.

Form 106-I8000

0.080 Ac