Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8	8000 Serial Number: <u>80-00 305</u> 7	Location: TOXL
A.	Flow Sensor Calibration and Verification Check Replaced o-rings if damaged ADJAC Flow Meter Serial Number: 55260	(Level 3,M,C,F)

3. Air Supplied to Intoxilyzer® 8000 at:

a. 🗶 5 L/min 🗶 15 L/min 🗶 30 L/min

4. Flow Rate Calibration Printout Attached

a, Correlation ≥ 0.99000

B. Gas Tank Sensor Check (Level 3,D,G)

1. Display: <u>989</u> psi Regulator: <u>/000</u> psi

2. Display and Regulator within 50 psi

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)

1. Autocalibration Printout Attached

a.` **⊠**Max Power Res Value ≥ 10

2. Simulator Solutions for Optical Bench Calibration Adjustment

a. Set # Solutions to Run at 5					
Soln.	g/	210 L	Lot No.	Exp. Date	Simulator SN
1	0	.000 (ACTUAL)	NA – MilliQ H₂O	NA – MilliQ H ₂ O	mP3057
2	0.040	(0.041)	202003A	3,10.22	MP3059
3	0.080	(0.080)	21050	2.15.23	MP5318
4	0-100	(0.102)	202010E	10.20.22	MP 3003
5	0.300	(0.298)	20030	1.21.22	MP 3069

3. 0.100 AC Calibration Gas for H2O Adjustment
a. Lot No. 07220100A1 Cyl No. Exp. Date: 5/5/22

4. Atmospheric Pressure

a. <u>960</u> mbar Displayed by Intoxilyzer® 8000

b. <u>96</u> mbar Adjusted to using barometer
c. <u>96</u> mbar on Auto Calibration Report printout

5. Screen displayed "Calibration Success"

OFFICE OF ATTORNEY GENERAL CRIME LABORATORY DIVISION

Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

6. 🛕 Calibration Adjustment Printout Attached	
a. ⊠ Solution 1 Avg % Abs ≤ 0.2500	
b. ∕⊠ Solution 2-5 REL STD DEV ≤ 3.000	
c. Residual (g/210 L) Values for Solutions 1-5 ≤ 0.0020 for 3	
μm and 9 μm channels	
d. Dry Gas H2O Adjustment Sum for 3 μm and 9 μm	
channels within ± 10	
Average H ₂ O Adjust	
3 µm 4410 + 351 = 4761	
9 µm 4522 + 239 = 4761	
7. Optical Bench Calibration Verification (Level 1, S and C)	
a. Wet Calibration Check	
i. Low AC Known Value ≤ 0.03 AC: _0.020 AC	
Sim. SN: MP3064Lot No.: 20070 Exp. Date: 2-13-	22
ii. High AC Known Value ≥ 0.25 AC: 0.300 AC	~ .
Sim. SN: MP5317 Lot No.: 2020 121-Exp. Date: 12-8.	22
b. Dry Calibration Check: Known Value 0.08 AC	
Lot No. 24/19 080 A Cyl No. 5 Exp. Date: 11-5-21	_
Test 1 <u>0.080</u> AC Test 4 <u>0.080</u> AC Test 7 <u>0.679</u> AC	
Test 20.08 (AC Test 5 0.080AC Test 8 0.079 AC	
Test 3 0.08 AC Test 6 0.079 AC Test 9 0.078 AC	
Average <u>A 080 AC</u>	
c. Wet Calibration Check and Dry Calibration Check AC results are	
within ± 0.005 or $\pm 5\%$ (whichever is greater) of stated value.	
D. Remarks/Maintenance: * No READING AT 104mm. FLOW	
SENSOR CHANGES BUT NO AIR FLOW REGISTERS. # AIR FLOW	_
REGISTERS AT 12 4MIN.	_
CLASS ROOM ONLY UNTIL FLOW SENSOR REPAIRED	_
nstrument is acceptable to be used in the field.	
NOTE: FLOW SENSOR CALIBRATION DUE TO FLOW SENSOR	
READING 74.	
(leal 9 6 6/14/2)	
Breath Analyst Signature Date	
Lal Z. Alet) 6-14-21	
Réviewed by Date	

CMI, Inc. Intoxilyzer Alcohol Analyzer North Dakota Model 8000 SN 80-003057 8164.14.00 09/16 Location = TOXL 06/14/2021 09:51

Flow Rate Calibration****** *
FLOW SENSUR STILL
FUNCTIONAL BUT
READING LOW.
CEE

1: Rate (Liters/min) = 5 SQRT(Diff)) = 1.000

2: Rate (Liters/min) = 15 SQRT(Diff)) = 6.242

3: Rate (Liters/min) = 30 SQRT(Diff)) = 19.336

Dependent Data Scale Factor = 100000 L/min

Independent Data Scale Factor = 256

Rounded Slope = 516

Rounded Intercept = 495821

Correlation = 0.99190

SN 80-003057

Malle ES

Intoxilyzer - Alcohol Analyzer

Model 8000 SN 80-003057 06/14/2021 11:02:04

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	% Abs 0.0920 0.0850 0.0960	or 0.0000 mg/l, (% Abs Ref) (0.0120) (0.0830) (0.1200) (0.1430) (0.1153) (0.0303) (26.247)	Samples = 4, % Abs 0.0750 0.0910 0.1140 0.0830 0.0960 0.0161 16.764	(% Abs Ref) (0.0220) (0.0320) (0.0350) (0.0420) (0.0363)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	% Abs 0.7840 0.8140 0.7750 0.7970 0.7953 0.0196 2.459	or 0.1952 mg/l, (% Abs Ref) (-0.0040) (0.0070) (0.0380) (0.0480) (0.0310) (0.0214) (68.960)	Samples = 4, % Abs 1.4410 1.4570 1.4510 1.4400 1.4493 0.0086 0.595	(% Abs Ref) (-0.0080) (0.0150) (0.0230) (0.0180)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	% Abs 1.5090 1.5210 1.4850 1.5050 1.5037 0.0180 1.200	or 0.3810 mg/l, (% Abs Ref) (-0.0270) (-0.0100) (0.0150) (-0.0070) (-0.0007) (0.0137) (2047.559)	Samples = 4, % Abs 2.7620 2.7660 2.7400 2.7460 2.7507 0.0136 0.495	
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	% Abs 1.9020 1.9210 1.9400 1.8950 1.9187 0.0226	or 0.4857 mg/l, (% Abs Ref) (-0.0250) (-0.0110) (-0.0060) (0.0150) (-0.0007) (0.0138) (2069.420)	% Abs 3.4840 3.4810 3.4970 3.4630 3.4803	(% Abs Ref) (-0.0110) (-0.0110) (-0.0040) (0.0150) (0.0000) (0.0135)
Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs	% Abs 5.3310 5.3380 5.3420 5.3200 5.3333 0.0117	(-0.0190) (-0.0020) (0.0030) (0.0250) (0.0087) (0.0144)	% Abs 9.5720 9.6040 9.6360 9.6190 9.6197 0.0160	Discarded = 1 (% Abs Ref) (-0.0120) (0.0040) (0.0140) (0.0150) (0.0110) (0.0061) (55.298)

TOXL

Intoxilyzer - Alcohol Analyzer

Model 8000 SN 80-003057 06/14/2021 11:02:04

Auto Calibration pg 2 of 2

<-	<<<< 3	um >>>>	<<<<	9um >	>>>>
Zero Order Coe First Order Co Second Order Co	ef 2641.	69		3.54 5.15	
(g/210L) 0.000 0.041 0.080 0.102	(g/210L) 0.001 0.040 0.080 0.103	Residual (g/210L) -0.0006 0.0011 0.0004 -0.0009 0.0001	(g/210L) 0.000	(g/210L) 0.000 0.041 0.080 0.102	-0.0002 0.0004 0.0001 -0.0003
<	<<< 3	um >>>>	<<<<	9um >	>>>>
Solution = 0.10 Sample	00 g/210L	or 0.4762 mg/l,	Samples = 4,	Discarded	= 1
Sample #1		4371.00		4510.0	0
Sample #2		4417.00		4536.0	0

4412.00

4402.00 4410.3335

7.6376

0.173

351

Atmospheric Pressure = 961

H20 adjust (mg/l*10k)

Marla de la constante de la co

Sample #3

Sample #4

REL STD DEV

Avg STD DEV

Intoxilyzer - Alcohol Analyzer Model 8000 SN 80-003057 06/14/2021 11:02:04 11:02:04

Auto Calibration Max Power Res Ualue = 40 Auto Range Res Value = 19

SN 80-003057

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Uploaded 6/15/2021 CEE

4532.00 4498.00

20.8806 0.462

239

4522.0000

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 06/14/2021 Alcohol Analyzer SN 80-003057 8164.14.00 09/16 11:51

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	11:51
02 Std. Sol.	0.020	11:52
03 Room Air	0.000	11:52
04 Std. Sol.	0.020	11:53
05 Room Air	0.000	11:54
06 Std. Sol.	0.020	11:54
07 Room Air	0.000	11:55

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

Simul Ser No = MP3064 Std Sol No = 20070

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

LOW 1

Remarks:

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
06/14/2021

SN 80-003057 8164.14.00 09/16 12:03

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	12:03
02 Std. Sol.	0.303	12:04
03 Room Air	0.000	12:05
04 Std. Sol.	0.301	12:05
05 Room Air	0.000	12:06
06 Std. Sol.	0.301	12:06
07 Room Air	0.000	12:07

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

Simul Ser No = MP5317/CEE Std Sol No = 2020127

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
06/14/2021

Alcohol Analyzer SN 80-003057 8164.14.00 09/16 12:10

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	12:11
02 Std. Gas	0.080	12:11
03 Room Air	0.000	12:11
04 Std. Gas	0.081	12:12
05 Room Air	0.000	12:12
06 Std. Gas	0.081	12:13
07 Room Air	0.000	12:13

Lot No = 24119080A1

Cyl No = 5

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 06/14/2021 SN 80-003057 8164.14.00 09/16 12:13

DRY CAL CHECK

Т	est		AC	Time
01	Room	Air	0.000	12:14
02	Std.	Gas	0.080	12:14
03	Room	Air	0.000	12:15
04	Std.	Gas	0.080	12:15
05	Room	Air	0.000	12:16
06	Std.	Gas	0.079	12:16
07	Room	Air	0.000	12:16

Lot No = 24119080A1

Cyl No = 5

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature

CHARLES EDER

Remarks:

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 06/14/2021

Alcohol Analyzer SN 80-003057 8164.14.00 09/16 12:17

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	12:17
02 Std. Gas	0.079	12:18
03 Room Air	0.000	12:18
04 Std. Gas	0.079	12:19
05 Room Air	0.000	12:19
06 Std. Gas	0.078	12:19
07 Room Air	0.000	12:20

Lot No = 24119080A1

Cyl No = 5

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature AZIBRATION CHECK

Remarks:

Form 106-I8000

0.080 AC