Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer® 8000 Serial Number:	80-005358	Location: TOXL
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- Α. Flow Sensor Calibration and Verification, Check (Level 3, M, C, F)
 - Replaced o-rings if damaged ADJUST 1.
 - Flow Meter Serial Number: 40655 2.
 - 3. Air Supplied to Intoxilyzer® 8000 at:
 - 4. XFlow Rate Calibration Printout Attached
 - Correlation ≥ 0.99000
 - Flow Sensor Calibration Verification (Level 3,D,F) a. 10 L/min: 0. 16 4L/S X 60 Sec/min = 9.84 L/min 5.
 - 20 L/min: 0. 3 2 4 L/S X 60 Sec/min = 19, 44 L/min
 - ★Flow Rates within ± 1 L/min of Expected Value
- B. Gas Tank Sensor Check (Level 3,D,G)
 - Display: 974 psi Regulator: 975 psi
 - 📈 Display and Regulator within 50 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
 - XMax Power Res Value ≥ 10
 - Äuto 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	NA – MilliQ H₂O	NA – MilliQ H ₂ O	MP 3066
2	0.040	201808D	8,22,20	MP 3067
3	0.080	201707E	7-25-19	MP 3068
4	0.150	201811E	11-26.20	MP 3069
5	0.300	20180314	3-22-20	MP 3070

- 3.
- 0.100 AC Calibration Gas for H2O Adjustment a. Lot No. 135/8/00 A3 Cyl No. 6 Exp. Date: 8/5/20
- Atmospheric Pressure 4.
 - 138 mbar Displayed by Intoxilyzer® 8000
 - 962 mbar Adjusted to using barometer b.
 - 96 I mbar on Auto Calibration Report printout
- 5. ★ Screen displayed "Calibration Success"

OFFICE OF ATTORNEY GENERAL CRIME LABORATORY DIVISION

6.

Toxicology Section/Breath Alcohol Program Intoxilyzer® 8000 Calibration Adjustment

BrW-008

	a.	Solution 1 A	/g % Abs ≤ 0.250	00
	b.		ŘEL STD DEV ≤	
	C.			Solutions 1-5 ≤ 0.0020 for 3
		μm and 9 μm c		
	d.			n for 3 μm and 9 μm
		channels withir	± 10	
		Average	H₂O Adjust	
	3 μm	4488 +	273	= 476/
	9 μm	4387 +	374	= <u>476/</u> = <u>476/</u>
7.	ХОр	tical Bench Calib	ration Verification	n (Level 1, S and C)
		Calibration Check		
	i.	Low AC Known	Value ≤ 0.03 AC	C: 0.015 AC
		Sim. SN: DRS	7// 3 Lot No.: 20	1805C Exp. Date: 5.30.20
	II.	High AC Know	n Value ≥ 0.25 A0	C: <u>0.300</u> AC
	L D. C	Sim. SN: <u>DK /</u>	084Lot No.: 1	7350 Exp. Date: 10-11-19
	b. Dry C	Calibration Check	: Known Value U	1.08 AC
				Exp. Date: 2.5.21
	Tost	20000AC T	est 4 <u>0.080</u> AC	Test 7 <u>0,080</u> AC Test 8 <u>0.080</u> AC
	Tost	2 <u>0.0 7 7</u> AC T	est 6.0.079 AC	Test 9 <u>0.079</u> AC
		age 0.080 AC	est o <u>oto / /</u> Ac	1est 9 <u>0.0 / /</u> A0
	714010	190 <u>010 00</u> 110		
	c. iXWe	t Calibration Che	ck and Drv Calib	ration Check AC results are
				eater) of stated value.
D. Re	emarks/Ma	aintenance: <u>R</u> E	PLACED EXT	ERNAL BATTISKY, RESET, 020AC STANDARD +/-0.005 TOLERANCE
		Tin	ME & DATE R	ESET,
CALI	BRATZON	ADJUSTMENT	DUE TO O.	020AC STANDARD
KEAI	DING (1.016 AC, 5T	TLL WITHIN	+/-0.005 10LERANCE
V 1 t		. 4	- Cald	
Minstrument is	acceptable	e to be used in th	e neia.	
	1 0		. /	
(leat	1/2/2	- Cola	6//	0/2019
Breath Analyst	Signature		Date	10/2019 NA
•	Δ.	IA-		1 A
		· ·		/\/ /7
Reviewed by			Date	

X Calibration Adjustment Printout Attached

CMI, Inc. Intoxilyzer Alcohol Analyzer North Dakota Model 8000 SN 80-005358 Location = TOXL 8164.14.00 09/16 06/04/2019 13:14

Flow Rate Calibration *******

- 1: Rate (Liters/min) = 5 SQRT(Diff)) = 4.121
- 2: Rate (Liters/min) = 15 SQRT(Diff)) = 9.219
- 3: Rate (Liters/min) = 30 SQRT(Diff)) = 20.855

Dependent Data Scale Factor = 100000 L/min Independent Data Scale Factor = 256 Rounded Slope = 570

Rounded Intercept = 4079 Correlation = 0.99429

FLOW SENSOR CALIBRATION
Charles Ell
6/10/2019

SN 80-005358

Intoxilyzer - Alcohol Analyzer Model 8000 SN 06/04/2019 13:29:55

10 CEG Auto Calibration

pg 1 of 2

	<<<<	3um >>>>	<<<<	9um >>>>
Solution = 0. Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.000 g/210L % Abs 0.0870 0.0770 0.0800 0.0450 0.0673 0.0194 28.811	or 0.0000 mg/l, (% Abs Ref) (-0.0090) (0.0090) (0.0370) (0.0850) (0.0437) (0.0384) (88.022)	Samples = 4, % Abs 0.1360 0.1880 0.1580 0.1700 0.1720 0.0151 8.779	Discarded = 1 (% Abs Ref) (-0.0130) (-0.0110) (-0.0120) (0.0000) (-0.0077) (0.0067) (86.848)
Solution = 0. Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.040 g/210L % Abs 0.7330 0.7530 0.7520 0.7710 0.7587 0.0107 1.409	or 0.1905 mg/l, (% Abs Ref) (0.0070) (0.0360) (0.0350) (0.0370) (0.0360) (0.0010) (2.778)	Samples = 4, % Abs 1.4380 1.4660 1.4660 1.4460 1.4593 0.0115 0.791	Discarded = 1 (% Abs Ref) (0.0090) (-0.0060) (0.0040) (0.0140) (0.0040) (0.0100) (250.000)
Solution = 0. Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.080 g/210L % Abs 1.4600 1.4820 1.4820 1.4610 0.0364 2.490	or 0.3810 mg/l, (% Abs Ref) (-0.0150) (-0.0060) (-0.0140) (0.0230) (0.0010) (0.0195) (1946.793)	Samples = 4, % Abs 2.7840 2.8040 2.8030 2.7680 2.7917 0.0205 0.734	Discarded = 1 (% Abs Ref) (0.0000) (0.0090) (0.0120) (0.0220) (0.0143) (0.0068) (47.490)
Solution = 0. Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	% Abs 2.6030 2.5750 2.6250 2.5960 2.5987 0.0251 0.966	or 0.7143 mg/l, (% Abs Ref) (-0.0380) (0.0060) (-0.0070) (0.0270) (0.0087) (0.0172) (197.956)	Samples = 4, % Abs 4.9130 4.9010 4.9180 4.9070 4.9087 0.0086 0.176	Discarded = 1 (% Abs Ref) (0.0220) (0.0450) (0.0380) (0.0640) (0.0490) (0.0135) (27.456)
Solution = 0. Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	% Abs 5.0540 5.0330 5.0250 5.0240 5.0273 0.0049 0.098	or 1.4286 mg/l, (% Abs Ref) (0.0120) (0.0410) (0.0570) (0.0470) (0.0483) (0.0081) (16.723)	Samples = 4, % Abs 9.3570 9.3470 9.3150 9.3530 9.3383 0.0204 0.219	Discarded = 1 (% Abs Ref) (0.0280) (0.0490) (0.0760) (0.0610) (0.0620) (0.0135) (21.819)

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TOXL
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005358
06/04/2019 13:29:55
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Auto Calibration

pg 2 of 2

	<<<<	3um >	>>>>	<<<<	9um	>>>>
Zero Order Co First Order C Second Order	oef 273	2.37		-2- 14: 12.:		
0.000 0.040 0.080	(g/210 -0.00 0.040 0.081 0.149	Resid L) (g/21 0 0.00 -0.00 -0.00 -0.00	0L) 02 02 011 08	(g/210L) 0.000 0.040	0.000 0.039 0.081 0.149	(g/210L) 0 -0.0000 0.0006 L -0.0011
	<<<<	3um >	>>>>	<<<<	9um	>>>>
Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1 Sample Sample #1						
Atmospheric	Pressure	= 961				

Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-005358
06/04/2019 13:29:55

Auto Calibration
Max Power Res Value = 27
Auto Range Res Value = 15

CALIBRATION ADJUST
6/10/19

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
06/10/2019

Alcohol Analyzer SN 80-005358 8164.14.00 09/16 14:23

WET CAL CHECK

Τe	est		AC	Į.	Time
01	Room	Air	0.000		14:24
02	Std.	Sol.	0.014		14:24
03	Room	Air	0.000		14:25
04	Std.	Sol.	0.014		14:26
05	Room	Air	0.000		14:26
06	Std.	Sol.	0.014		14:27
07	Room	Air	0.000		14:27

08 Sim Temp = 34.0°C

Simul Ser No = DR5113 Std Sol No = 201805C

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Low AC

Remarks:

0.015 AC

Form 106-I8000

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 06/10/2019 Alcohol Analyzer SN 80-005358 8164.14.00 09/16 14:29

WET CAL CHECK

Т	est		AC	Time
01	Room	Air	0.000	14:29
02	Std.	Sol.	0.299	14:30
03	Room	Air	0.000	14:31
04	Std.	Sol.	0.299	14:32
05	Room	Air	0.000	14:32
06	Std.	Sol.	0.301	14:33
07	Room	Air	0.000	14:34

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

Simul Ser No = DR7089 Std Sol No = 17350

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

476H AC

Form 106-I8000

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 06/10/2019 Alcohol Analyzer SN 80-005358 8164.14.00 09/16 14:37

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:37
02 Std. Gas	0.080	14:38
03 Room Air	0.000	14:38
04 Std. Gas	0.079	14:39
05 Room Air	0.000	14:39
06 Std. Gas	0.080	14:40
07 Room Air	0.000	14:40

Lot No = 34418080A2

Cyl No = 45

Exp Date = 02/05/2021

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

O. OBOAC

FORM 106-18000

CMI, Inc. Intoxilyzer
North Dakota Model 8000
Location = TOXL
06/10/2019

Alcohol Analyzer SN 80-005358 8164.14.00 09/16 14:40

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:41
02 Std. Gas	0.080	14:41
03 Room Air	0.000	14:42
04 Std. Gas	0.079	14:42
05 Room Air	0.000	14:43
06 Std. Gas	0.079	14:43
07 Room Air	0.000	14:44

Lot No = 34418080A2

Cyl No = 45

Exp Date = 02/05/2021

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

0.080 AC Form 106-18000

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 06/10/2019 Alcohol Analyzer SN 80-005358 8164.14.00 09/16 14:44

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:44
02 Std. Gas	0.080	14:45
03 Room Air	0.000	14:45
04 Std. Gas	0.080	14:46
05 Room Air	0.000	14:46
06 Std. Gas	0.079	14:47
07 Room Air	0.000	14:47

Lot No = 34418080A2

Cyl No = 45

Exp Date = 02/05/2021

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

Form 106-I8000

0-080 AC