BrW-008

INTOXILYZER® 8000 CALIBRATION ADJUSTMENT

Intoxilyzer $^{ ext{@}}$ 8000 Serial Number: $\underline{\mathcal{E}}$	30-004938 L	ocation:	TOXL
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- Α. Flow Sensor Calibration and Verification Check (Level 3, M, C, F)
 - Replaced o-rings if damaged ADJUST VERIFY 1.
 - 2. Flow Meter Serial Number: 40655
 - 3. Air Supplied to Intoxilyzer® 8000 at:
 - ¥ 5 L/min
 - ✓ Flow Rate Calibration Printout Attached 4.
 - Correlation ≥ 0.99000
 - 5. ★Flow Sensor Calibration Verification (Level 3,D,F) 10 L/min: 0. <u>/ 6</u> L/S X 60 Sec/min = 1/min
 - 20 L/min: 0. 324 L/S X 60 Sec/min = b. L/min
 - XFlow Rates within ± 1 L/min of Expected Value C.
- B.
 - Gas Tank Sensor Check (Level 3,D,G)

 1. Display: 933 psi Regulator: 950
 - 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)
 - X Autocalibration Printout Attached
 - Max Power Res Value ≥ 10
 - ∡Auto Range Res Value ≥ 4
 - 2. Simulator Solutions for Optical Bench Calibration Adjustment

Set # Solutions to Run at 5

			- Coldiono t	U 1 (d) 1 (d)	
Soln.	g/2	10 L	Lot No.	Exp. Date	Simulator SN
1	0.0	OCACTUAL	NA – MilliQ H₂O	NA – MilliQ H₂O	DR7111
2	0.040	(0.040)	201808D	8.22.20	DR 7347
3	0.080	(0-081)	201807C	7.25.20	DR5114
4	0.150	(0.151)	201811E	11.26.20	DR5131
5	0.300	(0.298)	19010	1.3.21	DR7346

- 0.100 AC Calibration Gas for H2O Adjustment 3.
 - Lot No. <u>135 /8 /06 A3</u> Cyl No. <u>4</u> Exp. Date: 8 · 5 · 2026
- 4. Atmospheric Pressure
 - 923 mbar Displayed by Intoxilyzer® 8000
 - 952 mbar Adjusted to using barometer b.
 - 952 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	n Adjustment Printout Attached
a. 🕱 Sol	ution 1 Avg % Abs ≤ 0.2500
b. 🕱 Sol	ution 2-5 REL STD DEV ≤ 3.000
	idual (g/210 L) Values for Solutions 1-5 ≤ 0.0020 for 3
	nd 9 μm channels
· •	Gas H2O Adjustment Sum for 3 μm and 9 μm
	els within ± 10
Avera	ge H ₂ O Adjust
3 um 44	06 + 355 = 4761
9 um - 43	36 + 355 = 4761 391 + 370 = 4761
7. X Optical Be	nch Calibration Verification (Level 1, S and C)
a. Wet Calibrat	
i. Low A	AC Known Value ≤ 0.03 AC: 0.020 AC
Sim 9	SN: MP3064 Lot No : 20070 Evn Date: 2:13-22
ii. High A	AC Known Value ≥ 0.25 AC: ⊘,300° AC
Sim. S	SN: <u>MP3667 Lot No. 201911 B</u> Exp. Date: 11.5.21
b. Dry Calibrați	on Check: Known Value 0.08 AC
Lot No. <u>241</u>	19 080 A 1 Cyl No. 9 Exp. Date: 11. 5.21
Test 1 0.06	SIAC Test 4 <u>0.079 AC Test / 0.079 AC</u>
Test 2 <u>0.08</u>	(AC Test 5 0.080 AC Test 8 0.079 AC
	AC Test 6 <u>0-079</u> AC Test 9 <u>0-079</u> AC
Average <u>o.</u>	280 AC
******	Charles of Day Onliberation Charles AC requite and
	ation Check and Dry Calibration Check AC results are
within ± 0.00	5 or ± 5% (whichever is greater) of stated value.
D. Domarka/Maintana	DOS: CALIBRATINA ADDIST DUSTO
D. Remarks/Maintena	nce: <u>CALIBRATION</u> ADJUST DUETO OR READING 923 mbar WHEN ACTUAR
ATMOPHERE MONITE	al 16 GE2 when
TAPED FRAYING/7	TAPE TEAR IN BREATH HOSE PROTECTOR.
[[]] [] [] []	EEE
Instrument is acceptable to be	used in the field.
Mistrament is acceptable to be	
	1.11.20
/ March to Co	Le 6.10.20
Breath Analyst Signature	Date (1)
A / A	NA
/ / / +	70,1
Reviewed by	Date

Alcohol Analyzer CMI, Inc. Intoxilyzer North Dakota Model 8000 SN 80-004938 8164.14.00 09/16 Location = TOXL 06/10/2020 11:39

Flow Rate Calibration******

1: Rate (Liters/min) = 5 SQRT(Diff)) = 6.082

2: Rate (Liters/min) = 15 SQRT(Diff)) = 11.488

3: Rate (Liters/min) = 30 SQRT(Diff)) = 22.469

Dependent Data Scale Factor = 100000 L/min

Independent Data Scale Factor = 256 Marker Charles

Rounded Slope = 587

Rounded Intercept = -338327

Correlation = 0.99688

Intoxilyzer - Alcohol Analyzer

Model 8000 SN 80-004938 06/10/2020 12:29:04

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		or 0.0000 mg/l, (% Abs Ref) (0.0100) (0.0990) (0.1540) (0.1970) (0.1500) (0.0491) (32.748)	Samples = 4, % Abs 0.1500 0.1610 0.1670 0.1590 0.1623 0.0042 2.565	Discarded = 1 (% Abs Ref) (0.0070) (0.0330) (0.0430) (0.0590) (0.0450) (0.0131) (29.144)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.040 g/210L % Abs 0.7920 0.7930 0.8040 0.7960 0.7977 0.0057	or 0.1905 mg/l, (% Abs Ref) (-0.0030) (0.0190) (0.0400) (0.0560) (0.0383) (0.0186) (48.408)	Samples = 4, % Abs 1.5710 1.5560 1.5550 1.5720 1.5610 0.0095 0.611	Discarded = 1 (% Abs Ref) (0.0180) (0.0400) (0.0510) (0.0500) (0.0470) (0.0061) (12.942)
Solution = 0 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV REL STD DEV	.081 g/210L % Abs 1.5080 1.5160 1.5140 1.5040 1.5113 0.0064 0.425	or 0.3857 mg/l, (% Abs Ref) (-0.0080) (0.0160) (0.0150) (0.0280) (0.0197) (0.0072) (36.784)	Samples = 4, % Abs 2.9150 2.9240 2.9440 2.9250 2.9310 0.0113 0.384	Discarded = 1 (% Abs Ref) (0.0000) (-0.0010) (0.0000) (-0.0003) (0.0006) (173.205)
Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg % Abs STD DEV	% Abs 2.6980 2.7250 2.7050 2.7020 2.7107 0.0125 0.461	or 0.7190 mg/l, (% Abs Ref) (0.0040) (0.0080) (0.0130) (0.0280) (0.0163) (0.0104) (63.724)	% Abs 5.2770 5.2770 5.2420 5.2430 5.2540 0.0199 0.379	(% Abs Ref) (0.0000) (0.0230) (0.0420) (0.0460) (0.0370) (0.0123)
	.298 g/210L % Abs 5.2080 5.2430 5.2440 5.2500 5.2457 0.0038	or 1.4190 mg/l,	% Abs 9.9580 9.9370 9.9460 9.9300 9.9377	(% Abs Ref) (0.0110) (0.0550) (0.0560) (0.0620) (0.0577) (0.0038)

TOXL

Intoxilyzer - Alcohol Analyzer

Model 8000 SN 80-004938 06/10/2020 12:29:04

Auto Calibration

pg 2 of 2

<	<<<< 3u	m >>>>	<<<<	9um	>>>>
Zero Order Coe First Order Co Second Order C	ef 2698.4		-23 136 8.40		
(g/210L) 0.000 0.040 0.081 0.151	(g/210L) -0.001 0.041 0.081 0.150	(g/210L) 0.0005 -0.0006 -0.0004 0.0006	Act (g/210L) 0.000 0.040 0.081 0.151 0.298	(g/210L) -0.000 0.040 0.081 0.151) (g/210L) 0.0002 -0.0004 0.0002 0.0001
<	<<< 3u	m >>>>	<<<<	9um :	>>>>
Solution = 0.1 Sample Sample #1 Sample #2 Sample #3 Sample #4 Avg STD DEV REL STD DEV H20 adjust (mg		4422.00 4370.00 4405.00 4445.00 4406.6665 37.5278 0.852	Samples = 4,	4405.0 4395.0 4383.0 4395.0 4391.0 6.9282 0.158 370	00 00 00 00 00 0000

Atmospheric Pressure = 952

TOXL

Intoxilyzer - Alcohol Analyzer

Model 8000 SN 80-004938

06/10/2020 12:29:04

Auto Calibration

Max Power Res Ualue = 41

Auto Range Res Walue = 20

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 06/10/2020 SN 80-004938 8164.14.00 09/16 13:11

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	13:11
02 Std. Sol.	0.020	13:12
03 Room Air	0.000	13:13
04 Std. Sol.	0.020	13:13
05 Room Air	0.000	13:14
06 Std. Sol.	0.020	13:15
07 Room Air	0.000	13:15

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

Simul Ser No = MP3064 Std Sol No = 20070

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Low AC

Remarks:

0.0201

Form 106-I8000

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 06/10/2020 SN 80-004938 8164.14.00 09/16 13:17

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	13:18
02 Std. Sol.	0.254	13:18
03 Room Air	0.000	13:19
04 Std. Sol.	0.253	13:20
05 Room Air	0.000	13:20
06 Std. Sol.	0.253	13:21
07 Room Air	0.000	13:22

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

Simul Ser No = MP3067 Std Sol No = 201911B

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

H1614

Remarks:

Form 106-I8000

0.250 AC

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 06/10/2020

Alcohol Analyzer SN 80-004938 8164.14.00 09/16 13:28

DRY CAL CHECK

Test	AC	Time	
01 Room Air	0.000	13:29	
02 Std. Gas	0.081	13:29	
03 Room Air	0.000	13:30	
04 Std. Gas	0.081	13:30	
05 Room Air	0.000	13:30	
06 Std. Gas	0.080	13:31	
07 Room Air	0.000	13:31	

Lot No = 24119080A1

Cyl No = 9

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature CHARLES EDER

Remarks:

0.080 AC

Form 106-I8000

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 06/10/2020

Alcohol Analyzer SN 80-004938 8164.14.00 09/16 13:32

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	13:32
02 Std. Gas	0.079	13:32
03 Room Air	0.000	13:33
04 Std. Gas	0.080	13:33
05 Room Air	0.000	13:34
06 Std. Gas	0.079	13:34
07 Room Air	0.000	13:35

Lot No = 24119080A1

Cyl No = 9

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature

Remarks:

0.080AC

Form 106-I8000

CMI, Inc. Intoxilyzer North Dakota Model 8000 Location = TOXL 06/10/2020

Alcohol Analyzer SN 80-004938 8164.14.00 09/16 13:36

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	13:37
02 Std. Gas	0.079	13:37
03 Room Air	0.000	13:37
04 Std. Gas	0.079	13:38
05 Room Air	0.000	13:38
06 Std. Gas	0.079	13:39
07 Room Air	0.000	13:39

Lot No = 24119080A1

Cyl No = 9

Exp Date = 11/05/2021

County = 08

Oper No. = 666666

Operator Signature

0.080AC Form 106-I8000