



**ALCO-SENSOR IV WITH PRINTER MAINTENANCE REPORT**

REPORT #7

Complete this report in duplicate at the time of the regular monthly preventative maintenance check, and whenever instrument is repaired. Send copy to Department of Health and Senior Services; retain original in department file.

ALCO SENSOR IV SN 111770	NAME OF AGENCY MSHP	DATE OF INSPECTION 11/24/2021
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LOCATION OF INSTRUMENT (STREET AND CITY) 891 TECHNOLOGY DRIVE, WELDON SPRING (TROOP C HQ)	TIME OF INSPECTION 12:20 pm
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**CHECKLIST:** Place a mark in the box by each item if found to be satisfactory or if operating within established limits. (Write in observed values where determined.) Unmarked items must be corrected before using instrument.

- DIGITAL READOUT (ALL ELEMENTS OPERATIONAL)
- TEMPERATURE OF ALCO SENSOR (10°C - 40°C)
- PRINTER WORKING PROPERLY
- TIME AND DATE DISPLAYING PROPERLY

**BREATH ALCOHOL ACCURACY STANDARDS**

- SIMULATOR SOLUTION  COMPRESSED ETHANOL-GAS MIXTURE
- STANDARD SUPPLIER REPCO MARKETING CO LOT # 20001 EXP. DATE 10/07/2022
- SIMULATOR TEMPERATURE (34°C ± 0.2°C) 34.00 SIM. SN MP2459 SIM. NIST EXP DATE 03/01/2022

- CALIBRATION CHECK – (ONLY ONE STANDARD IS TO BE USED PER MAINTENANCE REPORT)  
Run three tests using a standard solution. All three tests must be within ±5% of the standard value and must have a spread of .005 or less. Check the box corresponding to the standard solution being used. (PRINTOUT ATTACHED)
  - 0.100% STANDARD - MUST READ BETWEEN 0.095% and 0.105% INCLUSIVE
  - 0.080% STANDARD - MUST READ BETWEEN 0.076% and 0.084% INCLUSIVE
  - 0.040% STANDARD - MUST READ BETWEEN 0.038% and 0.042% INCLUSIVE

TEST 1  .097	TEST 2  .099	TEST 3  .100
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- RFI DETECTOR OPERATING

**INDICATE THE NUMBER OF BREATH TESTS IN THE FOLLOWING RANGES SINCE THE LAST MAINTENANCE REPORT: (DO NOT INCLUDE SELF-ADMINISTERED TESTS)**

REFUSALS	0	(0-.04)	0	(.05-.09)	0	(.10-.14)	2	(.15-.19)	2	(OVER .19)	0
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List any new parts and describe any alteration or modification that was made to restore the instrument to operate satisfactorily and within established limits (use other side if necessary).

TIME CORRECTED

**INSPECTING OFFICER**

SIGNATURE 	PRINT NAME A. MICHELS
TYPE II PERMIT NUMBER/EXPIRATION DATE 200009 01/03/2022	TELEPHONE NUMBER (636) 300-2800

**Return completed report to the:** Breath Alcohol Program, MO Department of Health and Senior Services, Southeast District Office by mail, fax, or email.

AS IV Serial no: 111770  
Version no: 532B

TEST RECORD 00196

Temp	Date	Time	s/ 210L
Air Blank:			
	11/24/21	12:26	.000
Calibration Check:			
	20 11/24/21	12:26	.097

Air Blank:  
11/24/21 12:26 .000  
Calibration Check:  
20 11/24/21 12:26 .097

Subject Name

Maint  
Subject I.D.

Operator Name, I.D.

A. Michels 200009  
Location

Troop C HQ

AS IV Serial no: 111770  
Version no: 532B

TEST RECORD 00197

Temp	Date	Time	s/ 210L
Air Blank:			
	11/24/21	12:30	.000
Calibration Check:			
	21 11/24/21	12:30	.099

Air Blank:  
11/24/21 12:30 .000  
Calibration Check:  
21 11/24/21 12:30 .099

Subject Name

Maint  
Subject I.D.

Operator Name, I.D.

A. Michels 200009  
Location

Troop C HQ

AS IV Serial no: 111770  
Version no: 532B

TEST RECORD 00198

Temp	Date	Time	s/ 210L
Air Blank:			
	11/24/21	12:32	.000
Calibration Check:			
	21 11/24/21	12:32	.100

Air Blank:  
11/24/21 12:32 .000  
Calibration Check:  
21 11/24/21 12:32 .100

Subject Name

Maint  
Subject I.D.

Operator Name, I.D.

A. Michels #200009  
Location

Troop C HQ

AS IV Serial no: 111770  
Version no: 532B

TEST RECORD 00199

Temp	Date	Time	s/ 210L
VOID: RFI			
	12 11/24/21	12:33	

VOID: RFI  
12 11/24/21 12:33

Subject Name

Maint  
Subject I.D.

Subject I.D.

Operator Name, I.D.

A. Michels 200009  
Location

Location

Troop C HQ

## CERTIFICATE OF ANALYSIS

**MANUFACTURER AND SUPPLIER: RepCo Marketing Co.**

**LOT NUMBER: 20001**

**EXPIRATION DATE: October 7, 2022 at 11:59 p.m.**

RepCo Marketing Co. certifies the following:

RepCo Marketing Co. prepared, tested and supplied Lot Number 20001 of Alcohol Certified Solution for simulators. This solution was manufactured and tested by RepCo Marketing Co., with confirmation by ISO 17025 and ISO 17034 accredited institution Alcohol Countermeasure Systems, using NIST standards. Random samples were analyzed by Alcohol Countermeasure Systems utilizing a gas chromatograph and found to contain .1227 gms/dl +/- .003 gms/dl wt/vol ethanol (95% Confidence).

The alcohol and distilled water used in the solution were found to be free of any interfering substance.

This solution will produce a vapor alcohol value of .100 +/- 3% gms/210L breath when heated to 34 Degrees Celsius +/- 0.2 Degrees Celsius in a simulator (95% Confidence).

The date of manufacture for this lot number is October 8, 2020 The expiration date for this lot number is October 7, 2022 at 11:59 p.m.

This document is a true representation of the original Certificate of Analysis.



Alma Palmer, Operations Manager  
RepCo Marketing Co.



STATE OF MISSOURI  
 DEPARTMENT OF HEALTH AND SENIOR SERVICES  
 BREATH ALCOHOL PROGRAM



**PERMIT**  
**TYPE II**  
**ADAM J MICHELS**

is hereby authorized to instruct and supervise operators, train instructors, inspect, calibrate, perform field service and repairs, and operate the following breath analyzer(s):

**ALCO-SENSOR IV WITH PRINTER**

for the determination of the alcoholic content of blood from a sample of expired air. Permit issued under the provisions of sections 577.020 through 577.041, RSMo and 306.111 through 306.119 RSMo.

DATE 1/3/2020

NUMBER 200009

EXPIRES 1/3/2022

DIRECTOR OF STATE PUBLIC HEALTH LABORATORY

DIRECTOR OF DEPARTMENT OF HEALTH AND SENIOR SERVICES



**STATE OF MISSOURI**  
 DEPARTMENT OF HEALTH AND SENIOR SERVICES  
 BREATH ALCOHOL PROGRAM

**INSTRUMENT OPERATOR CARD**

*The named cardholder is authorized to operate an evidential breath alcohol instrument for the determination of the alcoholic content in breath form of expired air in Missouri.*

**Operator** MICHELS, ADAM  
**Permit No** 200009  
**Date Issued** 1/3/2020    **Date Expires** 1/3/2022

