



MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES  
 STATE PUBLIC HEALTH LABORATORY  
**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 100292	NAME OF AGENCY Missouri State Highway Patrol	DATE OF INSPECTION 09/16/2022
LOCATION OF INSTRUMENT (STREET AND CITY) 504 SE Blue Parkway, Lee's Summit, Missouri 64063		TIME OF INSPECTION 2315

**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 # 21001 EXP. DATE 06/16/2023
- SIMULATOR TEMPERATURE (34°C ± 0.2°C) 34.00 SIM. SN MP2206 SIM. NIST EXP DATE 12/29/2022

- 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 ← .100	TEST 2 ← .098	TEST 3 ← .098
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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 3	(0-.04) 0	(.05-.09) 0	(.10-.14) 1	(.15-.19) 3	(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).

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**INSPECTING OFFICER**

SIGNATURE <i>Cpl. A.A. Engelhart #247</i>	PRINT NAME Cpl. A.A. Engelhart #247
TYPE II PERMIT NUMBER/EXPIRATION DATE 220195 08/11/2024	TELEPHONE NUMBER ( 816 ) 622-0800

**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: 100292  
Version no: 532B

TEST RECORD 01127

Temp Date Time <sup>s/</sup> 210L

Air Blank:  
09/16/22 23:26 .000  
Calibration Check:  
24 09/16/22 23:26 .100

Subject Name

Maint Test 1

Subject I.D.

Operator Name, I.D.

Cpl. A.A. Engelhart 220195

Location

Troop A

AS IV Serial no: 100292  
Version no: 532B

TEST RECORD 01128

Temp Date Time <sup>s/</sup> 210L

Air Blank:  
09/16/22 23:29 .000  
Calibration Check:  
24 09/16/22 23:29 .098

Subject Name

Maint Test 2

Subject I.D.

Operator Name, I.D.

Cpl. A.A. Engelhart 220195

Location

Troop A

AS IV Serial no: 100292  
Version no: 532B

TEST RECORD 01129

Temp Date Time <sup>s/</sup> 210L

Air Blank:  
09/16/22 23:33 .000  
Calibration Check:  
25 09/16/22 23:33 .098

Subject Name

Maint Test 3

Subject I.D.

Operator Name, I.D.

Cpl. A.A. Engelhart 220195

Location

Troop A

AS IV Serial no: 100292  
Version no: 532B

TEST RECORD 01130

Temp Date Time <sup>s/</sup> 210L

VOID: RFI  
12 09/16/22 23:35

Subject Name

RFI Test

Subject I.D.

Operator Name, I.D.

Cpl. A.A. Engelhart 220195

Location

Troop A

RepCo Marketing Co  
3101-188 Stony Brook Drive  
Raleigh, NC 27604  
919-876-5480

## CERTIFICATE OF ANALYSIS

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

**LOT NUMBER:** 21001

**EXPIRATION DATE:** June 16, 2023 at 11:59 p.m.

RepCo Marketing Co. certifies the following:


RepCo Marketing Co. prepared, tested and supplied Lot Number 21001 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 .1222 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 June 17, 2021 The expiration date for this lot number is June 16, 2023 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**

**AARON A. ENGELHART**

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, INTOX DMT**

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 8/11/2022

NUMBER 220195

EXPIRES 8/11/2024

*Mike Massman*

DIRECTOR OF STATE PUBLIC HEALTH LABORATORY

*Paula F. Nickelson*

DIRECTOR OF DEPARTMENT OF HEALTH AND SENIOR SERVICES

MO 580-0771 (6-10)

LAB-4 (R6-10)



**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** ENGELHART, AARON  
**Permit No** 220195  
**Date Issued** 8/11/2022 **Date Expires** 8/11/2024

