

Ohio Department of Public Safety
Ohio State Highway Patrol
Alcohol /Drugged Driver Enforcement

Alco-Sensor Manual

UNPACKING AND CHECK-OUT PROCEDURE

Before your instrument was shipped from the factory it was checked for accuracy. However, before placing your instrument into operation, as part of your checkout procedure, you should perform a successful accuracy/calibration check to assure yourself that the instrument's calibration settings are still properly adjusted. Record the results in the proper calibration log/record.

INTRODUCTION

The ALCO-SENSOR III is a pocket -sized breath alcohol testing device designed to read breath or estimate blood alcohol concentration (BAC). Nothing more than a disposable mouthpiece and a 9-volt alkaline battery are necessary to keep the ALCO-SENSOR operational.

With normal usage the unit should provide thousands of tests before the sensor needs replacing. The plug-in 9 volt ALKALINE battery should run 500 tests. Calibration is rapid and simple. An approved dry gas tank or a simulator may be utilized for calibration .

* Other types of batteries are not satisfactory.

EVIDENTIAL USE

When the ALCO-SENSOR III™ is used for evidential purposes, a limit of five positive test per hour should be observed. The fuel cell in the ALCO-SENSOR III will lose about 3% to 5% of its sensitivity when more than five "high" (above .100 samples are run in an hour). The cell will recover its full sensitivity in a matter of an hour after the last positive sample is run.

The ALCO-SENSOR III reading has three digits and a special fuel cell to enhance its performance. For precision work it should be calibrated with an approved standard.

If you are using the ALCO-SENSOR III for evidence, the waiting period between arrest and testing should conform to your local jurisdiction rulings, generally 15 to 20 minutes.

If the unit is being used for screening a 15 minute waiting period should be sufficient to rid the alimentary tract of any residual alcohol. Here again if regulations call for a minimum waiting period - observe it.

OPERATOR TRAINING

The results supplied by the calibrated ALCO-SENSOR III can be no better than the quality of the sample collected by the operator. Good sampling technique is essential to obtaining a deep lung sample, and a deep sample is essential to get a true breath alcohol reading.

AS SIMPLE AS THE ALCO-SENSOR III IS TO USE, TRAINING IN ITS USE IS RECOMMENDED.

There are several possible training resources. Often there are state organizations which train personnel in the use of the ALCO-SENSOR III. Example are: Health Departments; State Police; Municipal Police Academies; Junior College Systems, and others. Present users are frequently willing to assist new programs with advice and training. (References are available)

We have a VCR instructional tape which may be purchased. Personalized training programs can be arranged at your facility. Telephone inquiries regarding our services in this area are welcome.

INSTRUMENT CALIBRATION

Once a month calibration checks are recommended. If the reading is not within the required tolerance recalibrate the unit. TO GET GOOD RESULTS, THE UNIT MUST BE IN CALIBRATION.

ALCO-SENSOR III's generally hold their calibration for months. There are some circumstance which will cause sensitivity to drop and low readings to occur.

A recommended procedure for setting up a new program is to put the unit in place and check its calibration weekly for the first month. Reviewing these results should give you confidence in the stability of the calibration. If it holds calibration in your environment, set a policy of checking calibration monthly - otherwise, continue weekly checks.

PRINCIPLE OF OPERATION ALCOHOL IN THE BREATH

The accuracy of any Breath alcohol test is dependent upon the relationship between the concentrations of alcohol in the blood and deep lung breath. This ratio of 2:100 to 1 is well establish.

The amount of alcohol in a properly collected breath sample is governed by the amount of alcohol in the blood in the lungs. To get an accurate reading, a deep lung breath sample must be collected and analyzed.

A recent drink of an alcoholic beverage or regurgitation could introduce "mouth alcohol" to the breath, thus causing an exaggerated reading. A 15 minute waiting period prior to testing will insure the elimination of "mouth alcohol"

OPERATING CONDITIONS

The ALCO-SENSOR III is designed for optimal performance at temperatures between 20°C (68°F) to 36° (96°F). Temperature is important as the rate of the electro-chemical reaction is affected by temperature. The unit will operate at temperatures as low as 0°C, but the response is sluggish and some sensitivity is sacrificed.

Alco Sensor Operations Manual

**United States. National Highway
Traffic Safety Administration**



Alco Sensor Operations Manual:

Drunk Driving Defense Lawrence Taylor, Steven Oberman, 2006-01-01 For even the most seasoned DUI lawyers defending drunk driving cases has always presented special challenges Today mounting a successful drunk driving defense is more difficult than ever That s why DWI attorneys rely on *Drunk Driving Defense* Written by Lawrence Taylor and Steven Oberman *Drunk Driving Defense* is generally considered to be the standard bearing reference in the field Clear explanations of key scientific and technological issues for DUI lawyers *Drunk Driving Defense* ensures that you Understand The chemical biological and technological concepts and issues underlying drunk driving defense and prosecution Rely on expert DUI lawyers Taylor and Oberman to bring you up to speed in key areas including The key defects inherent in blood and breath analysis and testing The correlation between blood alcohol concentration and actual impairment The effects of stress and cold weather on alcohol absorption How fermentation of the blood sample may raise blood alcohol levels The effect of acetone in breath tests taken by diabetics and dieters Possible errors in breath analysis due to RFI radio frequency interference The effect of trauma from an automobile accident on alcohol elimination Dozens of Practical DWI attorney tools to streamline and simplify drunk driving defense preparation *Drunk Driving Defense* Sixth Edition contains dozens of practical tools to streamline and simplify the complex DUI defense process And now they are all included on a free bonus DWI Lawyer Resources CD ROM so you can locate review and print them out in a matter of seconds including Dozens of quick reference checklists to help DUI lawyers avoid critical missteps Sample drunk driving defense motions including those to help DU I lawyers to facilitate discovery appoint chemical experts and suppress blood alcohol evidence More than 150 pages of verbatim direct and DWI attorney cross testimony and statements Sample arrest reports instrument instructions and other forms use by police agencies Comprehensive DWI attorney client interview questionnaires for DUI lawyers Detailed operator s manuals For The most current blood alcohol testing equipment including the Intoxilyzer 8000 Try *Drunk Driving Defense* Risk Free for 30 days Your satisfaction is 100% guaranteed If for any reason you are not completely satisfied simply return it to us FREE SHIPPING Domestic Ground Shipping is Free when you pay by credit card

Laboratory Evaluation of Two Passive Alcohol Sensor Devices. Technical Report A. J. Farina, 1988 **Forensic Science Handbook** Richard Saferstein, 2002 The second in a three volume series this popular and widely circulated professional handbook describes the theories and practices of today s criminalistics and covers a wide range of subject areas relevant to the services rendered by crime laboratories and related facilities Presents authoritative reviews from recognized forensic criminologists and forensic scientists well versed in their chosen areas of expertise Considers a specific examination technique for a wide range of evidence prevalent in the modern crime laboratory e g DNA hair paint soil glass petroleum products explosives alcohol in blood and breath and questioned documents Describes the theory operation and forensic utilization of such modern analytical instruments as mass spectrometry capillary electrophoresis high performance liquid chromatography and the visible

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