

alcoSense® *lite*



WARNING: AlcoSense Lite is a sensitive measurement device. Performing a breath test less than 10 minutes after drinking risks blowing high levels of alcohol directly from your mouth into the system which could permanently damage the sensor and cause the system to read inaccurately. For best results wait at least 30 minutes after drinking or smoking before performing a breath test. Do not blow directly into the blow hole without a blow tube – this can damage the sensor and significantly reduce the lifetime of your unit.

Instruction Manual

AlcoSense Lite Instruction Manual

Thank you for purchasing your new AlcoSense Lite Breathalyser.

As you know, you never can tell how long it takes for alcohol to clear from your body after having a drink. It depends on many variables including body mass, time of day, food intake and even if you have a cold.

Road safety is our primary concern, specifically making it easy for you to know when you are clear of alcohol again the morning after a few drinks. The AlcoSense Lite breathalyser is designed to quickly and accurately indicate your level of intoxication, alerting you as to whether you are over or under the UK drink drive limit. With its unique ASC technology it can be used again and again while maintaining accuracy for longer.

Thank you again for purchasing this product and I'm sure you will be delighted with it. If you have any queries please do not hesitate to contact us.

Yours sincerely,



Hunter Abbott, Managing Director

Important - Please read

It is safest to drive when you have no alcohol left in your blood stream. As a result we only recommend driving when the AlcoSense Lite breathalyser reads 'LO'. If you have the slightest doubt in your mind about your fitness to drive DO NOT. Before using the AlcoSense Lite breathalyser you agree you have read the operating instructions & are aware of the legal alcohol limit in your jurisdiction. The manufacturer distributors and sellers of this product exclude all liability for improper use or loss or damage caused by actions taken by you after use of this product.

AlcoSense Lite User Manual Version 1.6

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How Breathalysers Work

Breathalysers work by measuring the concentration of alcohol vapour in your breath. Contrary to popular belief the alcohol is not coming from residue in your mouth but is actually evaporating from the blood that passes through your lungs when you breathe. The amount of alcohol evaporating from your lungs is directly proportional to the amount of alcohol in your blood stream making it possible to accurately calculate the promille Blood Alcohol Concentration (%BAC).

How Alcohol Is Processed by the Body

When you drink, alcohol is absorbed into the blood stream through your mouth and throat but mostly through the stomach and small intestine. The more you drink the more alcohol is absorbed by the body and the higher your BAC reading will become. Approximately 90 minutes after the alcohol is consumed it is distributed equally around the body through the blood stream. This is known as the point of Equilibrium.

As blood flows round the body around 90% of the alcohol it contains is broken down in to water and carbon dioxide by the liver in a process called Oxidation. The remaining 10% of the alcohol is passed from the body through the lungs and kidneys. A healthy liver typically breaks down alcohol at a rate of one unit of alcohol per hour but the more alcohol that is consumed the longer it can take for the liver to process each unit.

When you stop drinking your level of intoxication may stay constant or if you have been drinking heavily it could even increase for around 2 hours afterwards. This is because of the time it takes for alcohol to reach the bloodstream from the time you actually had the drink. If you have eaten food this can also increase the time, as the release of alcohol into the bloodstream can be slowed by it being absorbed by food in the stomach.

This is the reason why we do not recommend using the breathalyser just after finishing drinking because there are too many factors that can influence the reading. The ideal time is the morning after.

Things That Can Affect the Reading of Your Breathalyser

There are some factors that can affect the reading of breathalysers whether it be the AlcoSense Lite breathalyser or a police system. As long as you are aware of these factors you will be able to use your AlcoSense Lite to give high precision readings.

The Do's and Don't's

Do:

- Use the breathalyser the morning after a few drinks.
- Read the instructions carefully
- Activate the sensor before first use (see page 6)
- Perform an ASC (see page 6) regularly
- Phone us if you have any difficulties

Don't

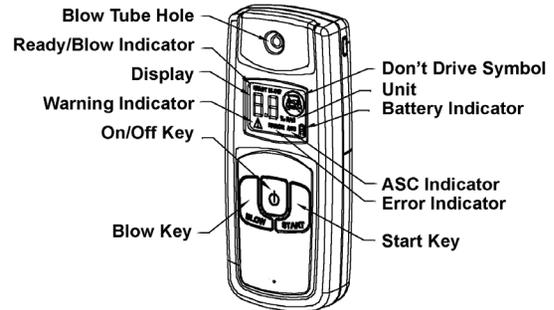
- Use the breathalyser for at least 30 minutes after drinking alcohol (we recommend using it the morning after, please see section "How Alcohol is Processed by the Body" on page 3)
- Use the breathalyser for at least 30 minutes after using mouthwash, breath spray, cough medicine or anything else that may contain alcohol.
- Don't perform sequential tests. Leave at least 5 minutes between tests perform no more than 6 tests in an hour and no more than 10 in 24 hours.
- Use the breathalyser for at least 25 minutes after having a cigarette or eating certain over-ripe fruit.
- Perform a test in dirty air, i.e. a smokey room.
- Use the breathalyser if you are breathing quickly (for example, after running up the stairs) or have been holding your breath. This can falsely lower or raise the reading respectively. Wait until you are breathing normally again.

It is safest to drive when you have no alcohol left in your blood stream. As a result we only recommend driving when the Alcosense breathalyser reads 'LO'.

Getting Started

This section will take you step by step through the basics of using your new AlcoSense Lite Breathalyser, namely:

1. Unpacking the box
2. Installing the batteries
3. **Preparing the unit for first time use - activating the sensor and performing an ASC.**
4. How to perform a breath test and understanding the results



1. Unpacking the Box

In the box you will have the following components:

- 1) 1 x AlcoSense Lite Breathalyser
- 2) This instruction manual
- 3) 5 x Blow Straws
- 4) 1 x Cleaning cap (small plastic cap inside battery compartment)
- 5) 1 x Pipette

2. Installing the Batteries

Turn the AlcoSense Lite over so that the back is facing you. Press the arrow down and slide the battery cover away from the unit. Insert three **new, good quality** 1.5v AAA alkaline batteries into the slots provided making sure that the batteries are inserted the right way round as indicated in the battery compartment. Then slide the battery compartment cover back on again. AlcoSense Lite can be turned on and off by pressing and holding the On/Off Key.

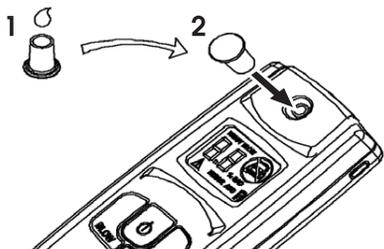
3. Preparing the unit for first time use

Activating the sensor

Before first use, or after an extended period of storage without use you must activate the sensor.

1) To activate the sensor you need an alcoholic liquid of 5-7% volume. In the UK pre-made drinks of this volume are difficult to find. We suggest the mixing a small amount of white wine and water in a ratio of 1 part wine to 1 part of water.

2) In the box there is a small plastic cap. Put a small drop of the liquid you have mixed in step 1 in to the cap. Place the cap into the blow tube hole on the AlcoSense Lite as shown in the diagram below.



3) If you have inserted batteries already, remove them from the back of the unit, press the power key once, then re-insert them. The ASC (Auto Sensor Clean) will start. Do not press any keys as this will cancel the ASC.

4) Put the unit down and wait 10 minutes. Two beeps will be heard to indicate the start of the ASC. After 10 minutes the AlcoSense Lite will beep meaning that the ASC is finished.

5) When the ASC is complete, leave the cap in the breathalyser and press

the power key as if you were performing a breath test (see page 8 of the manual). When the AlcoSense Lite displays Blow on the screen, hold down the Blow button for 5 seconds, until a beep is heard.

If the result shown on screen is 0.2 or higher, or just HI then the sensor is activated and the unit is ready to be used. Remove the cap from the breathalyser and you can use the pipette to blow fresh air through the breathalyser blow hole. **PLEASE NOTE** that the breathalyser may temporarily read slightly high for a couple of hours after activation, for example you may see a positive reading when you haven't drunk any alcohol - this will pass after a couple of hours.

If the result is ERR, please repeat step 5 again. This could be caused by pressing the blow key too late or not for long enough.

If the result is LO please perform an Auto Sensor Clean (see page 7 of the manual), then repeat the above steps to activate the sensor again. If it is still showing LO after repeating the process please call us on 0800 195 0088

Automatic Sensor Clean (ASC) Function

The ASC Function cleans the sensor inside the system and removes any contaminants from it (for example, oxidation if it has not been used for a period of time or residue left from previous tests). We recommend you perform an ASC every 4 weeks. To perform an ASC please do the following:

1. In a clean air environment, remove the batteries from the back of the unit, wait 5 seconds and re-insert them. The ASC will automatically start. **Do not press any keys as this will cancel the ASC.**

2. Put the unit down and wait 10 minutes. Two beeps will be heard to indicate the start of the ASC and ASC will flash on the screen. After 10 minutes the AlcoSense Lite will beep meaning it is finished.

4. How to Perform a Breath Test

Performing a breath test is easy and can be performed quickly. Responsible drivers find the Alcosense breathalyser particularly useful to help make sure they are ok to drive the morning after.

WARNING: AlcoSense Lite is a sensitive measurement device. Performing a breath test less than 10 minutes after drinking risks blowing high levels of alcohol directly from your mouth into the system which could permanently damage the sensor and cause the system to read inaccurately. For best results wait at least 30 minutes after drinking or smoking before performing a breath test. Do not blow directly into the blow hole without a blow tube – this can damage the sensor and significantly reduce the lifetime of your unit.

1. Put a blow tube on the system as show in the image below.
2. Press the ON/OFF button once and the screen will count down to zero while the sensor pre-heats.
3. When it has counted down to zero it will beep twice and BLOW will be displayed on the screen.
4. Blow through the blow tube in to the AlcoSense Lite **while pressing and holding the blow button**. You must blow into the unit with a constant breath slightly harder than a sigh until the unit beeps again. It will then display your results. If it says ERROR please see the table on page 10 for instructions.



NOTE:

If the backlight turns off (for power saving), you can press 'LIGHT' key once to turn it on again.

Do not perform sequential tests. Residue and condensation from the previous test can affect the accuracy of the next test. Leave at least 5 minutes between tests and perform no more than 6 tests in an hour and 10 tests in 24 hours. If you require more frequent tests please consider a higher model from the AlcoSense range.

Understanding the Results

First, check the drink drive limit in the table below and with your local road authority. AlcoSense will display the result of your breath test on screen in ‰BAC. The alert level your unit is set to is displayed on a sticker on top of the unit.

Any amount of alcohol affects your ability to drive, do not drive if you have any alcohol left in your system. The unit is accurate to +/-0.2‰BAC, therefore your reading could be 0.2 higher than that shown on the screen, always take this into account when reading your results. Only drive when the breathalyser reads LO, you feel 100% and have no reason to believe you may still have alcohol in your system. Have your unit calibrated annually, see page 14.

Country	‰BAC Limit*	Country	‰BAC Limit*
Australia	0.5 ‰ BAC	Italy	0.5 ‰BAC
Australia (prof.drivers)	0.2 ‰BAC	Luxembourg	0.8 ‰BAC
Austria	0.5 ‰BAC	Malta	0.8 ‰BAC
Belgium	0.5 ‰BAC	Northern Ireland	0.8 ‰BAC**
Canada	0.5 ‰BAC	Norway	0.2 ‰BAC
Cyprus	0.5 ‰BAC	Poland	0.2 ‰BAC
Czech Republic	0.5 ‰BAC	Russia	Zero
England & Wales	0.8 ‰BAC	Scotland	0.8 ‰BAC**
Denmark	0.5 ‰BAC	Slovakia	Zero
Finland	0.5 ‰BAC	Spain	0.5 ‰BAC
France	0.5 ‰BAC	Sweden	0.2 ‰BAC
Holland	0.5 ‰BAC	Switzerland	0.5 ‰BAC
Hungary	Zero	Turkey	0.5 ‰BAC
Ireland (Republic of) (proof & new drivers)	0.2 ‰BAC	UAE	Zero
		USA	0.8 ‰BAC

*Please Note: The legal limits above are correct as of March 2014. Should you use the breathalyser in different countries you must be aware of the drink drive limit in the jurisdiction you are using the AlcoSense in. Also, should the drink drive limit in your country change you must be aware that your AlcoSense breathalyser will continue to alert you not to drive at the original level with an accuracy of +/- 0.2‰ BAC. ** N.I. plans to lower this limit to 0.5‰BAC in the near future. Continued overleaf...

IMPORTANT: The unit is accurate to +/- 0.2% BAC, therefore your reading could be 0.2% BAC higher than that shown on the screen. e.g. if your result was 0.6% BAC, you could actually be 0.8% BAC. Always take this into account.

On top of the unit there is a small sticker showing the alert level. Check this then refer to the correct column and explanation for your device below. Make sure you know the correct drink drive limit in your area.

0.5% BAC Alert Level Model		0.8% BAC Alert Level Model		Explanation
Description	Example of Screen	Description	Example of Screen	
LO Less than 0.2% BAC		LO Less than 0.2% BAC		Zero or Trace Alcohol There is either no alcohol in the sample or such a small amount it is negligible. The reading is well below the legal drink drive limit.
Between 0.2% BAC and 0.3% BAC		Between 0.2% BAC and 0.5% BAC		Low Levels The sample has alcohol in it but it is below the limit that has been set. Any amount of alcohol affects your ability to drive. Do not drive.
Between 0.3% BAC and 0.4% BAC (Hazard symbol will be displayed on screen)		Between 0.6% BAC and 0.7% BAC (Hazard symbol will be displayed on screen)		Possibly Over the Limit Taking into account environmental variables and the accuracy of the unit you could be on or just over the limit. Do not drive.
Between 0.5% BAC and 1.5% BAC (Don't drive symbol is shown)		Between 0.8% BAC and 1.5% BAC (Don't drive symbol is shown)		Over the Limit The sample above the legal drink drive limit. Do not drive.
Above 1.5% BAC (Don't drive symbol is shown)		Above 1.5% BAC (Don't drive symbol is shown)		The sample's alcohol level is above 1.5% BAC and is outside the reading range of this device. Do not drive.
Error in Reading		Error in Reading		There has been an error while performing the breath test. This is normally caused by either blowing too hard or too softly into the AlcoSense. See page 8, bullet point 4 or call us.

Maintaining your AlcoSense Lite Breathalyser

Re-Calibration

Like any breathalyser, your AlcoSense will require recalibration after a period of use. We recommend your AlcoSense breathalyser should be re-calibrated once a year, or more frequently if you use it heavily. **If you do not have your breathalyser recalibrated on time it may read inaccurately.**

Recalibration requires specialist laboratory equipment can only be performed by an AlcoSense approved service centre. At the time of printing, recalibration costs £19.99 and takes 5 working days to complete.

To arrange calibration please visit www.alcosense.co.uk/cal or call us on 0800 195 0088.

Keep it Clean

To keep your AlcoSense Lite in tip top condition we recommend cleaning it regularly using a soft cloth and storing it in a clean, cool dry place not close to a heat source. We also recommend that you regularly perform an ASC (Auto Sensor Clean as explained on page 6).

Clean the Sensor

To help maintain the accuracy of the device we recommend you should perform an ASC regularly to remove any contaminants from the sensor. If you have not used your breathalyser for several weeks re-activate the sensor before use. You can find instructions for doing this on page 6.

Be Careful

Take care not to drop the AlcoSense Lite breathalyser as sudden knocks can affect the unit's accuracy. If you have dropped your AlcoSense Lite and feel that it is not reading correctly please call us to arrange to have the unit serviced. When the product is unused, please store it in a cool and dry environment.

Technical Support

If you have any queries which are not covered in this manual or need assistance using your unit please check the troubleshooting section in this manual, visit www.alcosense.co.uk/support or call our technical support number 0800 195 0088 Monday to Friday 9am to 5.00pm. If calling please make sure you have your breathalyser to hand.

Troubleshooting

The reading I got was lower than I expected.

If the breathalyser is new or it has not been used for an extended period you will need to activate the sensor, see page 6 of this manual. If you have activated the sensor perform an Auto Sensor Clean, see page 7 of this manual. If this does not fix the issue please call us on 0800 1950088.

I have got a positive reading but I haven't drunk any alcohol.

This can be caused by testing within 10 minutes of eating some strong foods, using dental products, chewing gum or smoking. On some occasions it can also be caused by the body releasing acetone/keytones released during the metabolism of acetoacetic acid. This can be increased with the use of some prescribed medications or certain medical conditions, most commonly diabetes. A healthy body can also create these substances occasionally, it is more likely if you are on a low carbohydrate diet such as the Atkins diet or similar. If you experience this problem please call us.

I'm doing a breath test and it says ERR.

This can be because you are not pressing and holding the blow key while blowing. If you are pressing and holding the blow key while blowing you could be stopping blowing too soon. Keep blowing and holding the key until the unit beeps again. If this does not work please call us for assistance.

Continued on following page....

I've done two breath tests and got different results.

This is expected. The first test is the most accurate, if you perform a second test within a few minutes of the first test the breath alcohol levels in your lungs may not have stabilised after the first test, causing the second test to give you a different reading. If you have recently drunk alcohol, your blood alcohol level can also change quickly over the course of a few minutes. This is why you should only use the breathalyser 90 minutes after drinking or ideally, the morning after. If you test two different breathysers back to back you will also expect slightly different readings for the same reason. This is why you cannot use one breathalyser to test the accuracy of another, it can only be done using Breath Alcohol Simulators. To give you an example, UK law allows for up to 15% difference on sequential test results taken by the Police.

For any other queries please visit alcosense.co.uk/support or call us on 0800 195 0088 (+44 1628 778885 outside the UK).

Accessories

The following accessories are available for your AlcoSense Lite unit, which are available either from your local dealer or directly from alcosense.co.uk.

Accessory	Description	Price*
Protective Carry Case	Keep your AlcoSense Lite breathalyser safe and sound in this beautiful carry case	£9.99
Pack of 20 Spare Blow Tubes	Pack of 20 new blow tubes for breath tests	£4.99

*Subject to change

Note on Environmental Protection

After implementation of the European Directive 2002/96/EU in the national legal system, the following applies: Electrical and electronic devices may not be disposed of with domestic waste. Consumers are obliged by law to return electrical and electronic devices at the end of their service lives to the public collecting points set up for the purpose or point of sale. Details to this are defined by the national law of the respective country. This symbol of the product, packaging or instruction manual indicates that this product is subject to these regulations. By Recycling, re-using the materials or other forms of utilising old devices, you are making an important contribution to protecting our environment.

Although every effort has been made to ensure that the contents of this manual are accurate and reliable Now Group UK Ltd accept no liability for errors or omissions and we reserve the right to change information without notice.

**RoHS
Compliant**



AlcoSense Lite limited warranty

WARRANTOR

This Limited Warranty is granted by and this Limitation of Liability is stipulated for the benefit of AlcoSense Lite, a trade mark of Now Group UK Ltd, Minster Court, 22-30 York Road, Maidenhead, Berkshire SL6 1SF Unite Kingdom.

WHAT THIS WARRANTY COVERS

1) Now Group UK Ltd. ("AlcoSense Lite") warrants to you that the Hardware will be free from defects in workmanship and materials under normal use ("Defects") for a period of one (1) year from the date that the Hardware was first purchased by you ("Warranty Period"). During the Warranty Period the Hardware will be repaired or replaced at AlcoSense Lite's choice ("Limited Warranty") without charge to you for either parts or labour. This Limited Warranty covers the replacement of the Hardware only. If the Hardware is repaired after the Warranty Period has expired (at your cost), the Warranty Period for the repair will expire six (6) months after the date of repair.

WHAT THIS WARRANTY DOES NOT COVER

2) The Limited Warranty does not apply to normal wear and tear, does not apply when the Hardware is opened or repaired by someone not authorised by AlcoSense Lite and does not cover repair or replacement of any Hardware or part thereof damaged by: misuse, moisture, liquids, proximity or exposure to heat and accident, abuse, non-compliance with the instructions supplied with the Hardware, neglect or misapplication. The Limited Warranty does not cover physical damage to the surface of the Hardware or calibration of the Hardware.

HOW TO MAKE A WARRANTY CLAIM

3) In order to make a claim of a Defect, you must contact AlcoSense Lite by email or telephone during the Warranty Period via www.AlcoSense.com to explain the Defect and to obtain an RMA number (Return Materials Authorisation) if necessary. You must return the Hardware during the Warranty Period, along with an explanation of the Defect, to the address provided to you by AlcoSense Lite. If a defect arises and a valid claim under this Limited Warranty is received by AlcoSense Lite after the first one hundred and eighty (180) days of the Warranty Period, AlcoSense Lite is entitled to charge you for any reasonable shipping and handling costs made in connection with the repair or replacement of the Hardware. You must comply with any other return procedures stipulated by AlcoSense Lite, if any.

YOUR LEGAL RIGHTS

4) Some countries may not allow the exclusion or limitation of damages. If any part of this Limited Warranty is held to be invalid or unenforceable, the remainder of the Limited Warranty shall nonetheless remain in full force and effect.

- 5) This Limited Warranty is the only express warranty made to you and is provided in lieu of any other express warranties or similar obligations (if any) created by any advertising, documentation, packaging, or other communications.
- 6) Except for the Limited Warranty and to the maximum extent permitted by applicable law, AlcoSense Lite and its suppliers provide the Hardware "AS IS AND WITH ALL FAULTS", and hereby disclaim all other warranties and conditions, whether express, implied or statutory, including, but not limited to, any (if any) implied warranties, duties or conditions of satisfactory quality, of fitness for a particular purpose, of reliability or availability, of accuracy or completeness of responses, of results, of workmanlike effort, of lack of viruses, and of reasonable care and skill, all with regard to the Hardware, and the provision of or failure to provide support or other services, information, software, and related content through the Hardware or otherwise arising out of the use of the Hardware. Also, there is no warranty or condition of quiet enjoyment, quiet possession, or non-infringement with regard to the Hardware. This exclusion does not apply to (i) any implied condition as to title and (ii) any implied warranty as to conformity with description.
- 7) This Limited Warranty does not affect any legal rights under applicable national legislation governing the sale of consumer goods.
- 8) This Limited Warranty cannot be transferred to any other person.

LIMITATION OF LIABILITY

- 1) Neither Now Group UK Ltd nor its suppliers shall be liable to you or to any third party for any direct, indirect, incidental, consequential or otherwise (including in each case, but not limited to, damages for the inability to use the equipment, loss of business, loss of profits, business interruption or the like) arising out of the use of or inability to use the Hardware even if Now Group UK Ltd has been advised of the possibility of such damages.
- 2) Notwithstanding any damages that you might incur for any reason whatsoever (including, without limitation, all damages referenced herein and all direct or general damages in contract or anything else), the entire liability of Now Group UK Ltd and any of its suppliers shall be limited to the amount actually paid by you for the Hardware.
- 3) Now Group UK Ltd shall not be liable for (i) any fraud on the part of its employees and/or agents; or (ii) any fraudulent misrepresentation on the part of its employees and/or agents.
- 4) Notwithstanding the above, neither party's liability for death or personal injury resulting from its own negligence shall be limited.
- 5) If any of these terms shall become or be declared illegal, invalid or unenforceable for any reason whatsoever such term shall be divisible from these terms and shall be deemed to be deleted from them.

Now Group UK Limited

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Made in China