AlcoLimit©
WORKSafe©

User Manual

Certified Product™
Australian Standard
AS 3547
Lic. SMKH20644
SAI GLOBAL

AlcoLimit Breathalysers Pty. Ltd.
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MANLY, NSW, 1655
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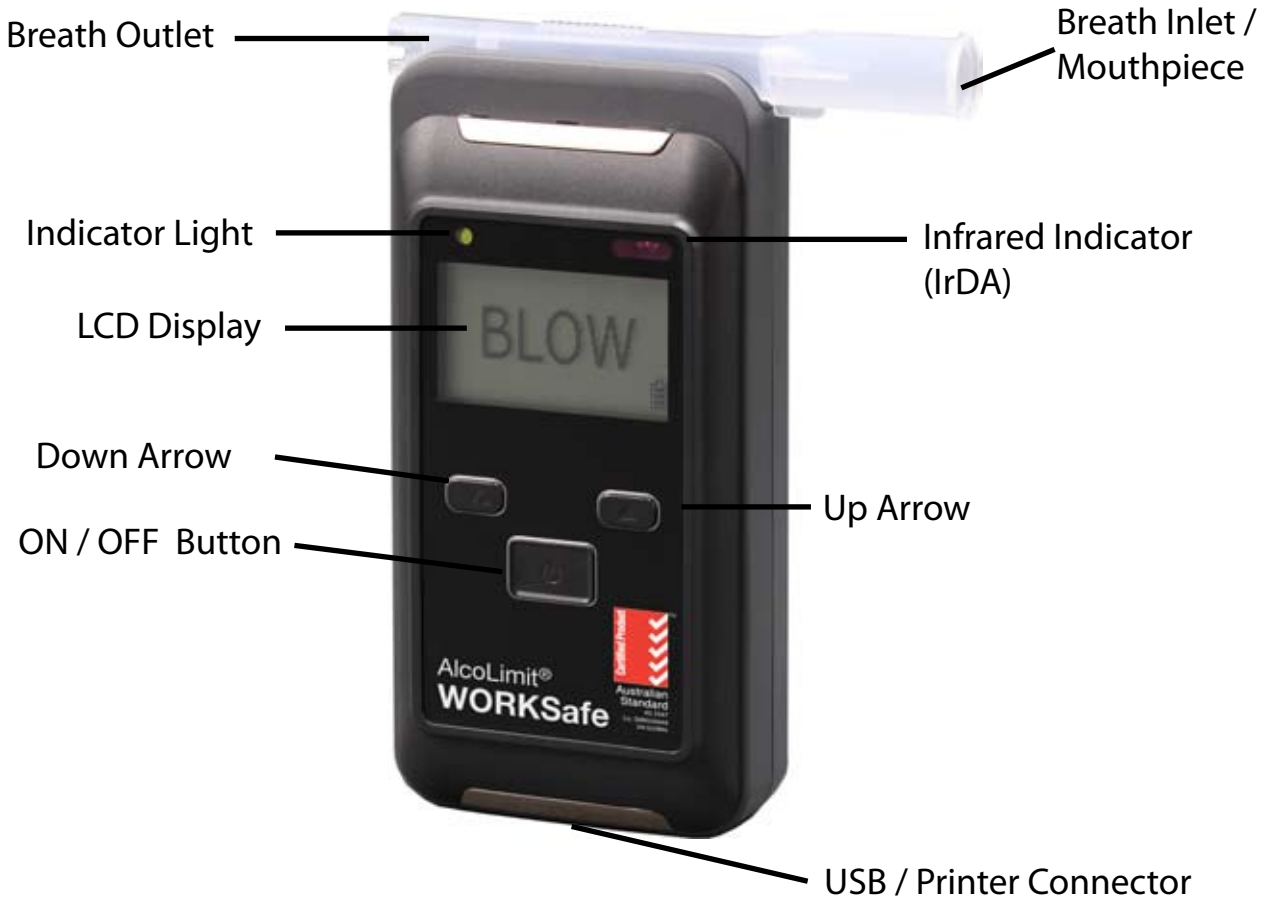
IMPORTANT INFORMATION

If you do not follow the instructions for use your test results may be inaccurate and your warranty may become void.

For most accurate results, it's important to wait at least 20 minutes after smoking, eating or drinking before testing. This is a universal principle for all breathalysers, not just yours. The reason being is that if you have recently consumed alcohol, the residual alcohol in your mouth is very high and can cause a false reading. Additionally, waiting 20 minutes allows the alcohol to be absorbed from your stomach into your bloodstream, contributing to more accurate test results.

PARTS OF YOUR BREATHALYSER



SPECIFICATIONS

Recommended Usage	Professional
Sensor Type	Replaceable Electrochemical Fuel Cell
Accuracy	Conforms to Australian Standard AS3547
Range %BAC	0.000 - 0.500
Display	LCD
Warm-up time	5 seconds - 2 minutes
Breath Sampling Time	5 seconds
Temperature	Operation -5ºC - 40ºC Storage -10ºC - 50ºC
Housing	Shock Resistant Plastic
Weight	198 grams
Power Source	2 x AA Alkaline Batteries
Dimensions	133cm x 64cm x 33cm
Warranty	12 Month Limited Warranty
Recalibration Period	Every 6 months

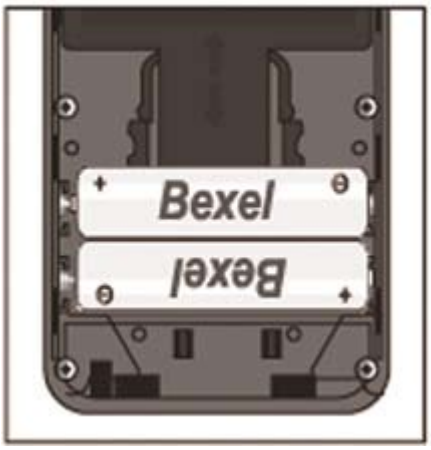
Specifications are subject to change for the purpose of product improvement.

For all after-sales service and enquiries please contact the manufacturer:

AlcoLimit Breathalysers Pty. Ltd.
P.O. Box 1106
Manly, N.S.W. 1655
Australia
Ph: 1300 667 661 or +612 9939 3077
Website: www.alcolimit.com.au
Email: sales@alcolimit.com.au

SET-UP YOUR BREATHALYSER

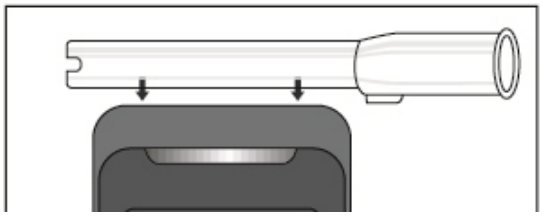
Inserting the batteries



Open the rear battery cover by sliding the top latch to the right and press the battery cover downward.
Insert 2 x AA 1.5v alkaline batteries or 2 x 1.2v rechargeable batteries.
Ensure the polarity is correct.
Replace the battery cover. *(Hook the 2 metal clips in at the top and slide the battery cover upwards until it secures in place.)*

Note: do not charge rechargeable batteries in the breathalyser. Always remove rechargeable batteries and charge in a separate charger.

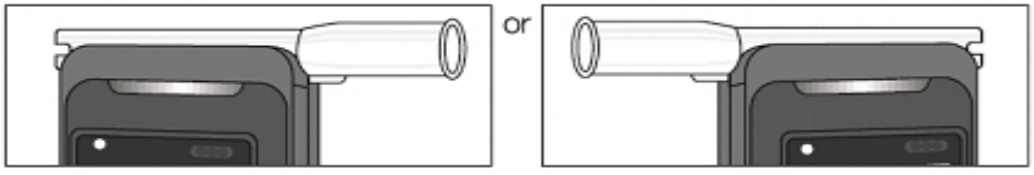
Attaching the mouthpiece for NORMAL MODE



Attach the mouthpiece as shown, ensuring it is secured with a 'click'.
The mouthpiece may be used with a left or right orientation to suit both left and right handed use.

To remove the mouthpiece, firmly grasp the larger open end and lever upwards until the mouthpiece 'unclicks'.

Use a new mouthpiece for every test.



Attaching the mouthpiece for FAST MODE

Fast mode requires a funnel shaped mouthpiece which may be re-used for multiple tests.
Simply attach the mouthpiece to the top of the breathalyser with the funnel facing upwards.

To remove the mouthpiece, simply pull directly upwards.

BASIC OPERATION - NORMAL MODE / FAST MODE

Depress the ON/OFF button for 2 seconds until the breathalyser turns on.

The initial screen will display the Date, Time & Serial Number of the device

The word WAIT will appear on the display along with the number of tests performed since the last calibration.
There is also an indication of the battery strength.

When the word BLOW appears, blow into the mouthpiece with a strong consistent breath. A beep will sounds while air is being accepted.
Once the correct amount of air is received the breathalyser will stop beeping and start analysing the sample.

<u>Quick toggle between modes</u>
Once the word BLOW appears you may toggle between NORMAL MODE and FAST MODE by pressing the UP arrow. The letter 'N' or 'F' will appear in the top right hand corner of the screen. Only available when the breathalyser is preset in FAST MODE. See pg. 12.

The word ANALYSING will appear on the display while the breathalyser is analysing the air sample. This usually takes only a few seconds.

In NORMAL MODE operation a 3 decimal place result will appear on the display and remain for 15 seconds.
eg. 0.051%BAC

If you wish to retest, press the On/Off button again.

In FAST MODE operation either the word PASS or FAIL will appear on the display indicating the presence or absence of alcohol.
The PASS level is 0.000 %BAC by default but can be custom set at any level to suit your organisation upon request. eg. 0.020%BAC or 0.050%BAC

In FAST MODE the breathalyser will automatically reset for the next test.

Turning off the power
The breathalyser will turn off automatically after 15 seconds of non-use.

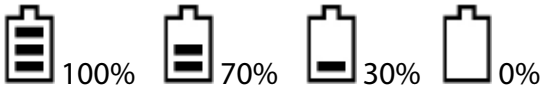
To force the breathalyser to shut-down, press and hold the on/off button for 3 seconds until the display counts down and the breathalyser turns off.

IMPORTANT INFORMATION

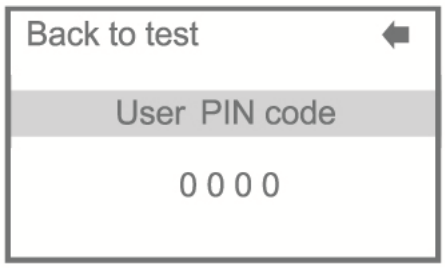
This device is tested as a 0.05% BAC device (0.05%BAC is equal to 0.05grams of alcohol per 100ml of blood).
ALCOLIMIT WORKSafe has a range of 0.000-0.500 %BAC.

PLEASE NOTE: Alcohol vapour on your breath will cause a higher reading. We recommend having a glass of water prior to testing and waiting at least 20 minutes after your last drink for accurate results. Not waiting the required 20 minutes will saturate the sensor unnecessarily and may cause sensor damage. This is not covered under your warranty. Please always wait 20 minutes after consuming any alcohol to avoid this problem.

TROUBLESHOOTING GUIDE

Indication on display	Solution
F L O W	Insufficient breath has been detected by the sensor. Restart the breathalyser and ensure you are blowing a strong consistent breath. Continue blowing until the beeping sound stops. This indicates it has received a sufficient air sample.
Battery Change	The level of charge in the batteries is almost 0%. Change your batteries.
	An indication is provided on the display with an estimate of the level of battery life remaining.
Service required Calibration	Recalibration is required to maintain the specified acuracy of the device. Replace the pre-calibrated sensor module with a new one. Note: you can do this yourself or send it to our Service Centre for recalibration.
C.Test No	This indicates the number of tests performed since the sensor was last calibrated.
L.Test No	This indicates the total number of tests performed with the breathalyser since it was manufactured.
Sensor Empty Check to connect system	The breathalyser is unable to detect the sensor module or there is a problem with the sensor module. Contact AlcoLimit Breathalysers on 02 9939 3077.
Over Temperature Keep to operating temperature range	The device is being used outside of its specified operating temperature of -5ºC to 40ºC.
System Error 1 or 2	Contact AlcoLimit Breathalysers on 02 9939 3077.

ACCESSING THE MENU



Note: If FAST MODE is set in the main menu (see pg. 12) press the down arrow when BLOW appears on the display and you can enter the User PIN Code entry screen.

To access the MENU turn the breathalyser on by pressing the ON/OFF button then press the 'M' button (down arrow on left hand side).

User PIN Code should appear on the display. If you hold the button down too long then Administrator PIN Code will appear. If so, press the up arrow and ON/OFF button to restart.

Press the ON/OFF button once more then enter the PIN code of 0000 by pressing the ON/OFF button 4 times.

The MENU CONTENTS are:

- Last tests
- Last maintenance
- Total test count
- Date & Time
- Measurement mode
- Set date
- Set time
- Set Language
- Backlight
- Printer
- Save to SD card
- Bluetooth
- Change user PIN
- Set Contrast

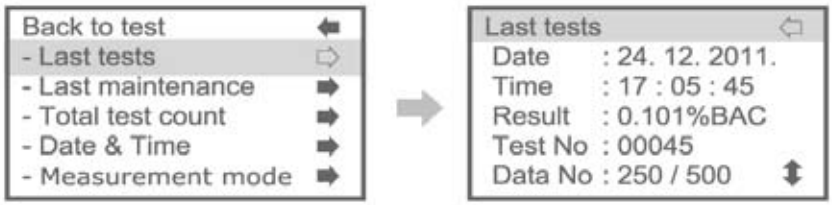
Navigating the menu
Use the UP and DOWN arrows to move up and down through the menu or menu information.

Use the ON/OFF button to select a menu item.

Use the UP arrow to go backwards to a previous menu and press the ON/OFF button to select the previous menu.

Lasts Tests Data

Provides the results of the last 500 breath tests including date, time, result in %BAC, the test number and data number (eg. test 250 out of 500).
Use the up and down arrows to move from one data set to another.

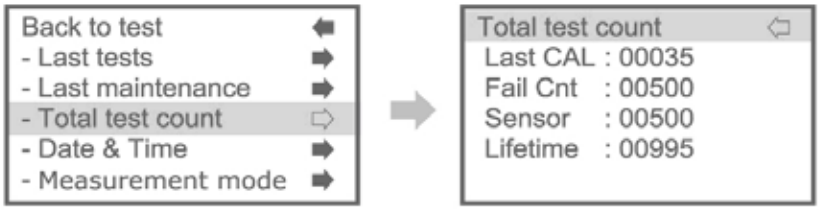


Last Maintenance

Displays the last Calibration Date and Accuracy Check

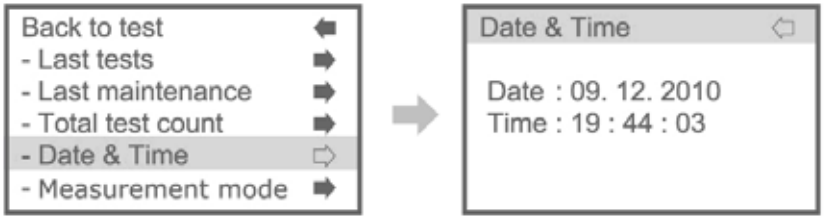
Total Test Count

- Last CAL: The number of tests since the last calibration
- Fail Cnt: The number of failed tests
- Sensor: Total number of tests performed by this sensor module
- Lifetime: Total number of tests performed by the breathalyser



Date & Time

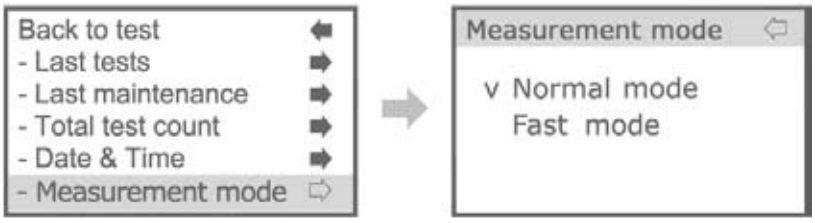
Displays the curent date and time settings



Measurement Mode
Displays the usage mode of either Normal Mode or Fast Mode

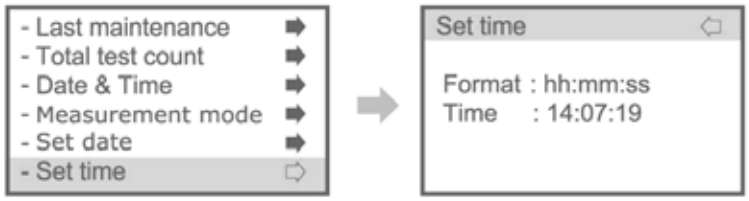
Normal Mode - requires a full lung of air and provides a 3 decimal place numerical %BAC read-out. eg 0.051. A standard one-use mouthpiece is used for this mode.

Fast Mode - requires a small sample of breath and provides an indication as to whether alcohol is present or absent in the donor's breath. P (Pass) or F (Fail) is indicated. A funnel shaped re-usable mouthpiece is used for this mode.



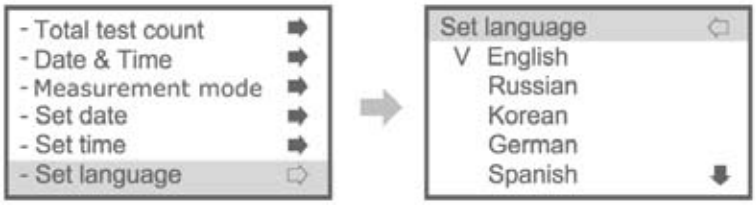
Set Date
Allows the date format and date to be changed

Set Time
Allows the time to be changed but format is unchangeable



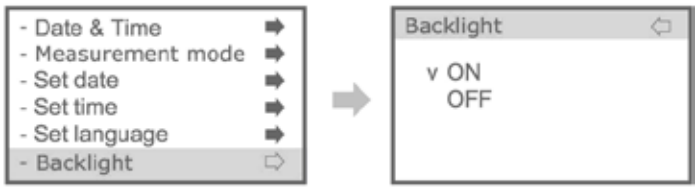
Set Language
Allows the language for menu and general use to be changed

Language options are:
English, Russian, Korean, German, Spanish and Italian.
Language options are not available for the Quick and Administrator menus. These are only available in English.



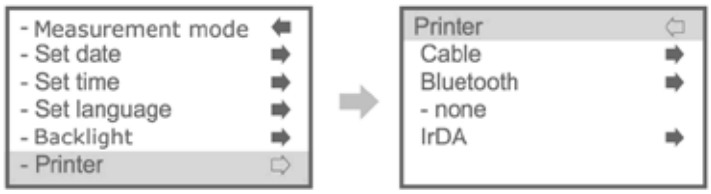
Backlight

Backlight may be turned ON or OFF. When battery is low then OFF is recommended.

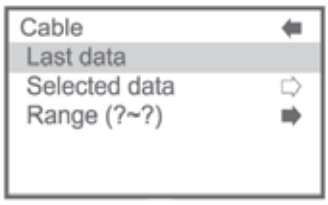


Printer

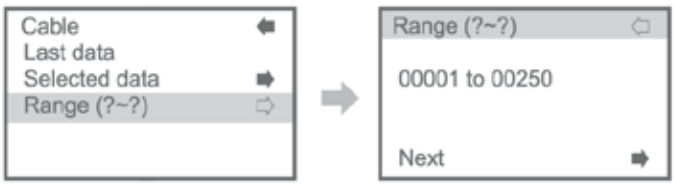
Select the method by which the printer wil connect.



To print the last data recorded via a specified mode, select the mode and then chose Last Data. Press the Menu/Enter button to print the data to the printer.

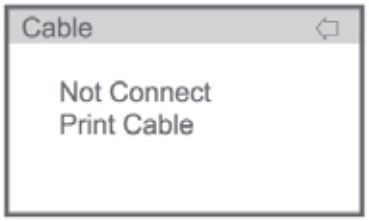


To print previous results select 'Selected Data' and press the Menu/Enter button to prnt that data result.

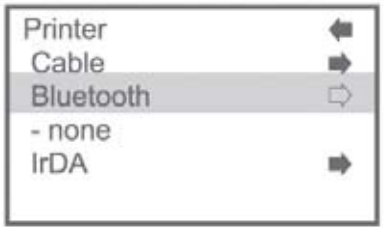


To print multiple data sets at once, select 'Range' and input the number range corresponding to the data numbers you require. Press the up and down arrows to increase and decrease the numbers. Then select NEXT (by pressing Menu/Enter button) to print the whole selection.

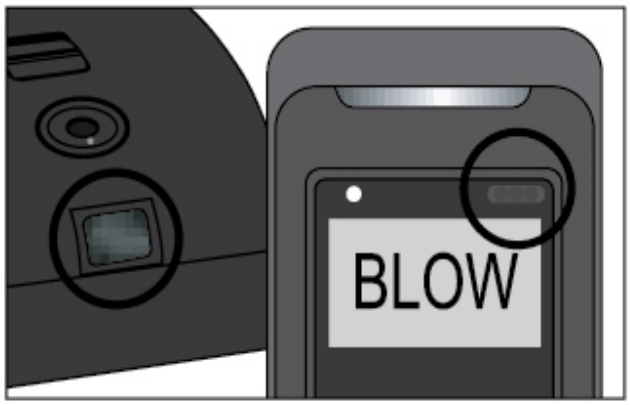
If the printer is not detected or there is a problem with the cable connection the folowing error will appear on the display.



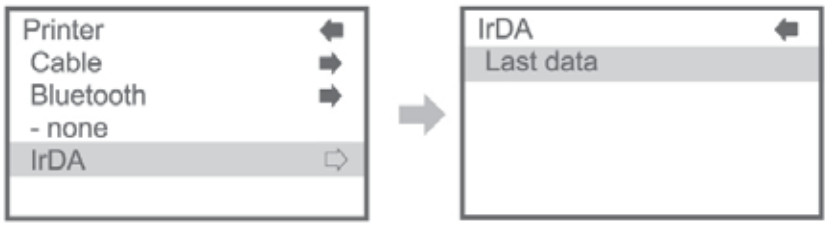
Bluetooth Option (only available on selected models as this is an extra option)
If Bluetooth is enabled on your breathalyser then a Bluetooth code will be visible. If it is not available then NONE will be visible.



IrDA (Infrared) Option (only available on selected models as this is an extra option)
If IrDA is available on your breathalyser you can print using this method. Ensure the IrDA sensor/ receiver are facing each other on the breathalyser and printer. This uses a direct line of sight connection.

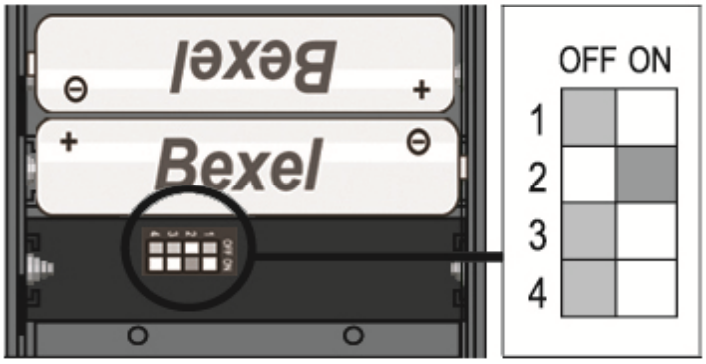


Select Last Data and press the Menu/Enter button to print.

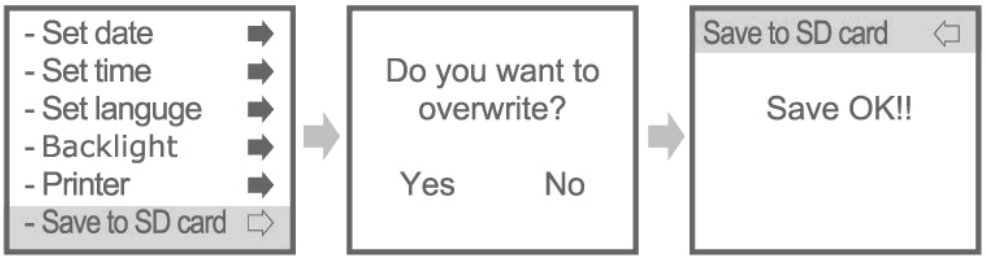


The IrDA and Bluetooth options must be enabled in the printer itself in order to communicate with the breathalyser.
The switch is located under the batteries in the back of the breathalyser.

2nd switch OFF: Bluetooth OFF, IrDA ON
2nd switch ON: Bluetooth ON, IrDA OFF

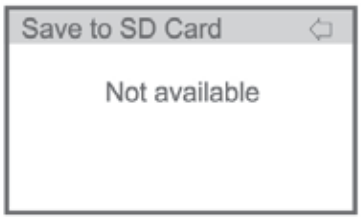


Save to SD Card
You can save all of the data on the device to an SD card for storage. Eg. if you wish to save more than 500 records.

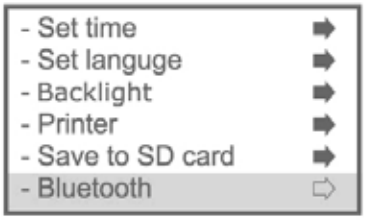


Select whether you wish to overwrite the data or add to the data already on the card. The data will then be saved.

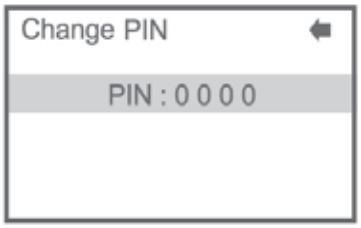
If an SD Card is not inserted in the breathalyser or is not inserted correctly the following error will appear.



Bluetooth (optional function)
Displays the Bluetooth settings and indicates whether Bluetooth is ON



Change User PIN
Allows you to change the user PIN number to any 4 digit number.
Highlight PIN 0 0 0 0 and press enter to change it. Then select the numbers you require by using the up an down arrows. Press Menu/Enter to move to the next number.



Set Contrast
Allows you to change the display contrast level. Adjust using the UP and DOWN arrows.

WARNINGS (Please read carefully)

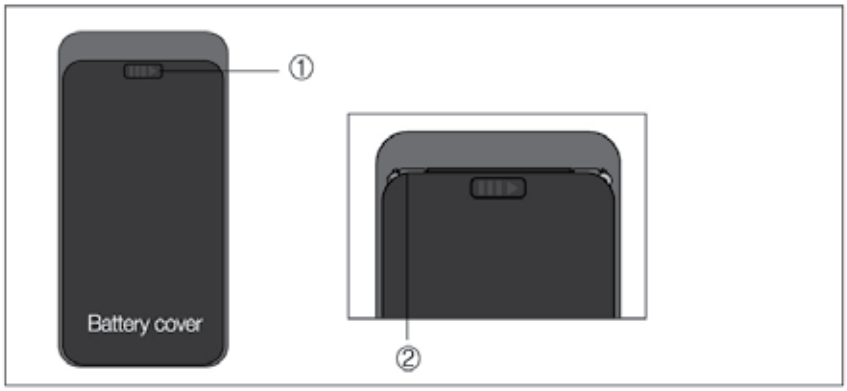
- Closed rooms with poor ventilation, pollution, smoke or air conditioning may delay the time for resetting between tests.
- Avoid testing in the presence of any substances that contain methyl alcohol, isopropyl alcohol or acetone. These substances may interfere with the results of the test.
- Not waiting at least 20 minutes after your last alcoholic drink will cause inaccurate readings, and if you continue to misuse ALCOLIMIT this way you will damage the sensor beyond repair (not covered under warranty). Have a glass of water or other non-alcoholic beverage to minimise alcohol vapour in your mouth as the vapour can cause a higher reading.
- Retest 2-3 times to obtain a reliable test result. We suggest you then wait a further 10 - 20 minutes and retest to check that your level has stabilised and not increased.
- Blood alcohol concentration can continue to rise for up to 2 hours after the cessation of drinking. If the reading is close to the limit it is advised to wait a further 10-20 minutes and re test to determine whether your %BAC has stabilised.
- It can take 10 hours or more to return to a zero reading after a high blood alcohol level has been reached. A further test should be carried out later in the day or the following morning.
- If you are taking ALCOLIMIT overseas or using it at a different altitude please be aware that the calibration may be affected.
- Do not blow cigarette smoke or liquid into the tester.
- Alcohol affects each individual differently depending upon many factors; type of alcohol, muscle mass, weight, full or empty stomach, immune system, gender, regularity of drinking.
- Those with diabetes may find they can drink large volumes of alcohol yet still read 0.00%BAC. This does not mean your ability to drive is not impaired.
- Do not use ALCOLIMIT as a tool to drink and drive. There is no safe level of alcohol consumption before driving or operating machinery.
- The only true indication of your Blood Alcohol Concentration (BAC) is a blood test. The results obtained from a personal breath alcohol tester cannot be used in a court of law.

STORAGE CONDITIONS

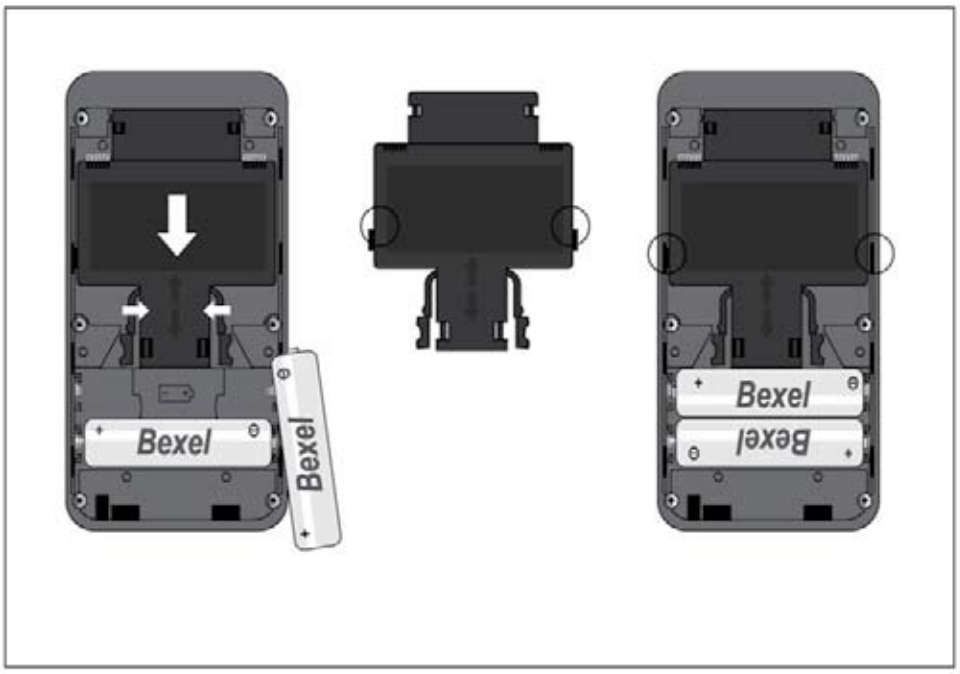
Keep free from dust, dirt, and small particles as they may clog the sensor.
Keep in a cool dry place.
Keep out of extreme temperatures.
Keep out of reach of children.
Keep away from electrical interference.
Do not drop, knock or shake.

REPLACING THE SENSOR MODULE

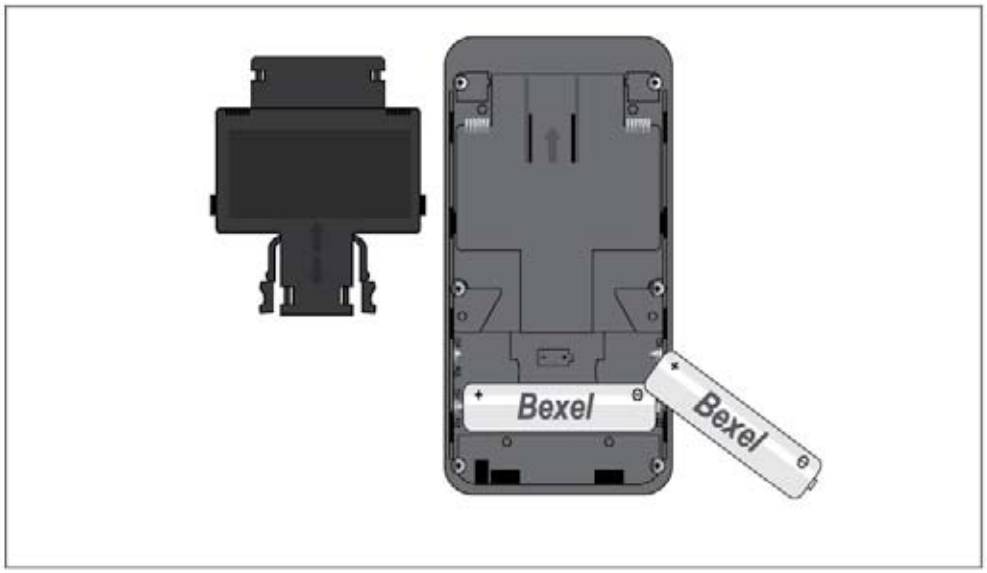
Remove the battery cover
Slide the tab to the right and push the battery cover downwards to slide it off.



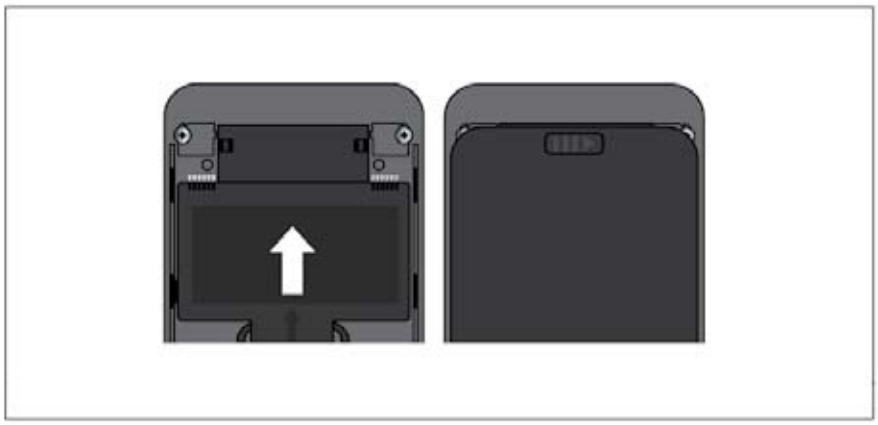
Remove the sensor
First, take the batteries out.
Grip the tabs on the sensor on both sides (see white arrows). Squeeze the tabs inwards and slide the sensor downwards at the same time.
The sensor will slide downwards and can then be pulled out.



Insert the replacement sensor
Hold the sensor with the arrows on the upward face.
Insert the sensor flat against the breathalyser and then slide upwards. You will hear a click sound when it secures in place.



Replace the battery cover
Hook the 2 metal clips in at the top and slide the battery cover upwards until it secures in place.



Return your sensor for recalibration
See page 20 for details on how to return your sensor for recalibration. We recommend you have 2 sensors in total so that while one is being recalibrated you can use the other in your breathalyser.

RECALIBRATION

The calibration period of ALCOLIMIT WORKSafe is 6 months.

The ALCOLIMIT WORKSafe breathalyser incorporates a self-replaceable fuel cell sensor module which may be replaced by the user at their workplace and returned to our service centre for recalibration and checking. (You will require 2 sensors for this) This means there is no downtime for servicing and, unlike other brands, you don't need to send the whole breathalyser off for servicing.

If you receive erratic or high readings your breathalyser sensor may need recalibration.
If you have any doubt about the readings you are receiving from your ALCOLIMIT WORKSafe then your sensor may need recalibration.

Periodic recalibration is required because over time breath alcohol testing devices may drift from their calibration setting even when not used.

Your ALCOLIMIT WORKSafe is a sensitive instrument. Unlike other electronic devices, your breathalyser shouldn't be ignored for long periods of time. The sensor inside it is delicate and can dry out if left unused for too long. In order to keep it in good working condition, we recommend that you blow into it at least once a month, even if you don't plan on using it. Breathing into the unit regularly keeps the sensor moist and in good working order. Sensors that dry out can sometimes require more frequent calibration.

Professional Calibration by our Technicians:
You may return just your sensor for calibration or the whole breathalyser - whichever suits your situation. Recalibration costs $85 AUD and includes return postage to you within Australia and NZ via Australia Post.

Post to :

AlcoLimit Breathalysers Pty. Ltd.
Servicing Dept.
P.O. Box 1106
Manly, N.S.W. 1655

When posting your sensor to us you are advised to send it Registered Mail for tracking purposes.

You must include the following:
- your name
- return postal address
- daytime phone no.
- payment
- instruction manual to update service record (optional)

A 'Calibration Request Form' is available for download from our website which indicates all the information we require to perform your recalibration and includes payment options.

If you require a 'Calibration Certificate' please request one at the time of recalibration. These cost $22 each.

You may pay with credit card online via PAYPAL on our 'SERVICING' page at: www.alcolimit.com.au/servicing

Or you may call us on **1300 667 661** to pay with credit card.

Your sensor will usually be returned to you within a week. If you have any questions regarding recalibration, please call us on 1300 667 661 or +612 9939 3077
For NZ Customers we recommend payment via Credit Card due to exchange rate changes.

WARRANTY

Manufacturer warrants for one calendar year the product to be free from defects in workmanship or materials (excluding calibration) in normal service from the date of purchase. Manufacturer's obligation under this warranty is limited to replacing or repairing the unit if returned along with proof of purchase. This warranty is void if unit has been tampered with, misused, dropped, maliciously damaged or used for any purpose other than that intended.

The cost to return the unit to the manufacturer's service centre is at the expense of the consumer. The consumer is welcome to drop the unit off at our service centre in person. The consumer must contact our customer service centre prior to returning the unit to us to enable our technicians to diagnose the fault over the phone.

Upon returning the unit to our service centre under warranty, should the unit be found not to be faulty, the consumer is liable for the freight cost to return the item to them. Should the unit be found to be faulty the freight cost to return the item to the consumer will be borne by the manufacturer.
Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

DISCLAIMER

ALCOLIMIT WORKSafe is recommended as a screening device only. The reading you receive is not legally binding in a court of law, ALCOLIMIT WORKSafe is to be used only as a guide. The only true indication of your %BAC is a blood test.
Probationary drivers and machinery operators should check with their state authority or employer as to whether a 0.02%BAC or zero tolerance applies to them. We do not recommend driving or operating machinery with any amount of alcohol in your system. Heavy fines and penalties may apply and the presence of alcohol in your system may void your insurance.
The manufacturer gives no warranty, express or implied, as to the ability of ALCOLIMIT WORKSafe to determine or detect intoxication or to accurately indicate your blood alcohol level.

Disclaimer cont'd

The manufacturer assumes no responsibility in circumstances where a person who has used the device and received an indication of the presence of alcohol in his/her exhaled breath is later found to be under the influence of or their judgment has been impaired by alcohol; and will under no circumstances be liable for any loss or damage in contract or tort (including negligence) or otherwise suffered by any person arising directly or indirectly from the use of ALCOLIMIT WORKSafe.
The manufacturer, importer or distributor takes no responsibility whatsoever for the use of this product for any reason. This product must not be used as a tool for determining whether a person is able to operate a vehicle or machinery. The intake of any alcohol will impair reflexes and judgment to operate motor vehicles and machinery.

For further information on ALCOLIMIT WORKSafe, and to view other models available, see our website: **www.alcolimit.com.au** or call our Customer Service line on **1300 667 661.**

RECALIBRATION SERVICE RECORD

Date of Recalibration	Service Details	Technician

For service records to be updated, please send your instructions with your sensor each time it is recalibrated.
Alternatively, you may request a Calibration Certificate at a cost of $22 (recommended for workplaces).