

alkoSure[®]
A synonym for precision

F22

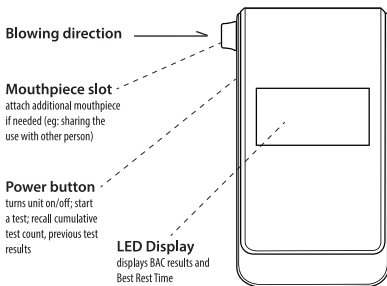


User Manual

DIGITAL ALCOHOL TESTER
fuel cell sensor

Thank you for purchasing alkoSure F22 which estimates the alcohol in your breath and provides a numeric result indicating your approximate Blood Alcohol Content (BAC). Following the BAC result, the unit will also estimate the time it will take (in the format of H:MM; hours and minutes) for your alcohol level to reach back to 0.00 (Zero - sobriety!). This Predictive Sobriety Timer feature continues in the background, even when the unit is powered off, and is always ready when you need it. Simply power on the unit again to retrieve the remaining time needed for sobriety. Our goal is to provide you with peace of mind so that you can plan responsibly.

Getting Started



Battery

The unit requires Two (2) AAA Alkaline batteries to operate. Press down with little pressure and slide away the battery cover from back of the unit. Install the batteries and close the battery cover.
(** Beware of the correct polarity (+ and -) to prevent damage to the unit)

15 minute observation period



Wait 15 mins from your last consumption of alcohol before you use the unit. Failure to wait 15 mins could give inaccurate test results and damage the sensor!

It is suggested to wait 15 minutes from drinking, and rinse your mouth with water before using the unit. If you do not wait enough time and perform a test just after drinking, the reading will fluctuate very high reading and then drop gradually. It is due to the strong alcohol residue inside your mouth that enhanced the measured values. In addition, if the alcohol residue inside mouth (without enough wait time) is of too high concentration, it might have potential to damage the sensor.

Optimal accuracy at room temperature



Room temp.

It is recommended to conduct breath tests at room temperature for optimal accuracy. It is also recommended to store the unit in room temperature environment (when not using the unit for long time) to maintain the healthy state of the sensor. Do not use or store the unit under extreme temperature setting. (eg: store inside car under extreme summer or winter temperature)

Taking a Breath Test

Get an estimation of Blood Alcohol Content BAC

Using a mouthpiece is optional. However if you would like to use one, insert it to the mouthpiece slot.



Press Power button to turn on the unit. The unit initiates sensor warm-up process and starts to count down.



When you see "rdy" (Ready) with a beep sound, take a deep breath and blow into the unit moderately, and at a constant speed and pressure.



It displays " ---" and alert a continuous beep, indicates a proper breath flow is detected. At the end of blowing (~5 sec), the tester automatically takes the breath sample.

'click' 'click'

Blow until you hear the 2 'click' sound (click, click) is complete to signal sample collection is successful.



The unit starts analyzing the collected breath sample and shows " ---" (Calculating). Wait for a short while and the BAC result would be displayed.

Predictive Sobriety Timer



If the BAC result is not zero, the unit calculates and suggests the "brt" (Best Rest Time) for the estimated time required for your BAC to reach back to 0.00 (Zero), if there is no further alcohol consumption.



Best Rest Time shows in format of H.MM. For example 2.45 means it takes 2 hours and 45 mins for your BAC to reach back to 0.00.

* Due to the limitation of the display, the maximum time can be displayed is 9.59 (9 hours and 59 mins). Any time exceeded this range would temporarily displays as "OUT", the timer continues in the background and will show again once it falls back to 9.59 or lower.

The unit will alternately display the BAC result and Best Rest Time for a few cycles before automatically turns off.

The Predictive Sobriety Timer operates in the background even when the unit is turned off, providing the convenience of not requiring another breath test for this information. When you turn on the unit next time, it will display the remaining time.

If you wish to perform a new breath test, simply press the Power button for 2 sec, the unit will show "Off". This means the timer function is successfully reset, and the unit is turned off. When you turn on the unit again, you will see the count down screen, now you are ready to start a new breath test.

Suggested wait time between tests

After you have completed the first test and would like to take a second test and so on, it is recommended to WAIT AT LEAST FEW MINUTES (PREFERABLY 5-10 MINS) between tests to prevent the sensor being saturated and to keep the healthy state of the sensor.

Passive (Manual) mode of conducting breath test

In normal situation, when you blow into the unit, the sampling system will automatically detect your breath with a continuous beep sound and draw the sample at the end with a click, click sound. If this does not happen or you cannot complete a test, you can try conducting the test in Passive (Manual) mode.

To activate the Passive mode, when you see the unit shows 'rdy' (Ready), short press the Power button and you will hear the continuous beep sound. Start blowing into the unit, keep blowing until you hear the click click sound, and wait for the BAC result.

BAC display format

The alkoSure F22 could display the BAC result in either format of (‰, %, mg/l) to suit different countries' standard. If you would like to change it, at the moment when the BAC result is displayed, simply fast press the Power button 2 times to change between display format.

Read previous results

Recall cumulative test count

During countdown, press Power button to display the cumulative test count - the number of tests it has performed. This number also helps you to decide when a calibration service is needed. See 'Calibration' section for more information.

To reset this counter, at the same screen where it shows the test count, you could fast press Power button 2 times, the test count number flashes, then again fast press Power button 2 times, you will see 0 flashes, again fast press Power button 2 times to confirm reset of the cumulative test count. The screen will show a static 0, meaning the test count is successfully reset.

Recall previous test results (up to 50 records)

During countdown, press Power button, it shows the cumulative test count, press Power button again to display the latest test record (indicated by the serial number '1' on screen, followed by the corresponding result) Fast press Power button 2 times to display the next test records sequentially upto the 50th past test result history.

To exit, press Power button again back to countdown.

System messages

Display	Cause and Course of Action
H	This message means the unit detected an out of range high alcohol concentration (above 4.00‰ BAC / 0.400%BAC / 2.00mg/L).
FlO	This message (Flow) means insufficient or uneven blowing is detected. Kindly perform another test.
Snr	This message means Sensor Not Ready. It happens when high concentration of alcohol residue or pollutant is found on sensor from last test. Kindly switch off unit and wait few minutes before conduct next test.
rPt	This message (Repeat) means the unit could not complete a test. Kindly repeat another test.
Out	When "OUT" displays during calculation of BAC result: It means the test maybe conducted in a too cold environment. Please place the unit in a room temperature environment (20 - 25 Celsius) for (20-30) mins before conducting a new test. If the unit still continues to show the "OUT" message for many times, please contact the dealer for support.
Out	When "OUT" displays during calculation of Best Rest Time (Predictive Sobriety Timer): It means the calculated Best Rest Time is more than 9 hours 59 mins. The timer continues in the background and will show again once it falls back to 9 hours 59 mins or lower.

Display	Cause and Course of Action
Lo	This message means Low Battery. Replace new AAA alkaline batteries.

Precautions

1. Allow at least 15-20 mins after drinking, smoking before testing. Rinse mouth with water before testing. Blowing residue of high concentration of alcohol in mouth without 15-20 mins wait time might damage the sensor and shorten the sensor life time.
2. For more accurate results, it is recommended to have the unit recalibrated for every 12 months or 300 tests. Contact your dealer.
3. The unit is designed to be used in a temperature range of 10-40C (Celsius), with optimal accuracy for tests conducted at room temperature (i.e: around 20-26C Celsius).
4. It is normal to see test result below 0.10‰ or .010% BAC or 0.05mg/L when you did not drink any alcohol before. This is because it is possible to measure other substance in your breath other than alcohol in some occasions.
5. Do not use the unit as a tool to determine you should operate vehicle. The BAC result displayed is for reference only. Manufacturer and dealer disclaims any legal responsibility for the measured test value.

Calibration

alkoSure F22 is calibrated during manufacture using advanced alcohol simulation equipment. Known alcohol concentrations are passed through the sensor to set baseline values for testing. During testing, the unit compares users' breath samples to these baseline values.

The accuracy of breath alcohol testers can fluctuate after six to twelve months of normal use, depending on the number of tests performed and operating conditions.

If this product is providing inconsistent test results, is not providing any test results, or provides unusually high or low test results, the product should be recalibrated by a trained professional.

If the total number of tests taken is 300 or greater, OR you have used the unit for over 1 year since last calibration (whichever comes earlier), we recommend sending the unit to your local distributor for recalibration service.

Maintenance

To keep the unit in a healthy condition, it is suggested to use the unit at least once a month. Use it more and have fun!

Warranty

The manufacturer warrants this product against defects in materials and workmanship under normal use for a period of ONE (1) YEAR from the date of purchase. The manufacturer's obligation under this warranty is limited to replacing, adjusting or repairing the unit if returned along with proof of purchase. This warranty is void if the unit has been tampered with or maliciously damaged.

Specifications

BAC Detection Range	0.00 to 4.00 ‰ (i.e: 0.000 to 0.400%BAC or 0.00 to 2.00 mg/l)
Accuracy	+/- 0.05 ‰ or +/- 0.005 %BAC at cal. point at room temp.
Warmup	Within 5 seconds (* at low concentration test)
Response time	Within 10-30 seconds
Sensor	Electrochemical Fuel Cell sensor
Operating temperature	10 - 40°C (50 - 104°F)
Display panel	Digital LED display (3 digit)
Data logger	Storage of last 50 test results
Power	Two (2) x AAA Alkaline Battery
Battery life	Approx. 500-1000 tests with new battery
Dimensions	104 x 56 x 20 mm
Recalibration	Recommended every 6-12 months or 300 tests

Don't Risk It, Know Your Limit. Do Not Drink And Drive!

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