

alkoSure®

EN



# Nano

## User Manual

Please read this manual before use.

**DO NOT DRINK & DRIVE!**

**alkoSure® Nano** by it's name, is the world's smallest digital alcohol breath tester with fuel cell sensor! This tiny device helps to estimate your BAC (Blood Alcohol Content) in seconds!

It's accurate, consistent and extreme handy. Bring it with you to parties!



## Getting started

The unit is pre-installed with CR2032 battery. In order to use the unit, simply slide away the battery door and pull out the battery insulation tab away from the unit. Close the battery door and the unit is now ready to use!

## Allow 15 mins wait before testing

### IMPORTANT!

Wait 20 Minutes



No Drinking



No Smoking



**Wait 15 mins** from your last consumption of alcohol before you use the unit. Failure to wait 15 mins could give inconsistent test results!

It is suggested to wait 15 minutes from smoking and 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.

## 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)

## How to use

**MOUTHPIECE:** Pull up the folding mouthpiece located on left side of the unit. Attach an additional mouthpiece (3pcs included) if necessary.



**POWER ON:** Press Power button for 2 sec to power on the unit. The unit initiates sensor warm-up process. Timer starts to count down.



**GETTING READY:** After count down finished, you will see a flashing 'rdy' (Ready) which indicates the unit is now ready to collect breath sample.

*\*\* The unit will wait 8 seconds for your breath sample. If no blowing is detected, it will show zero 0.00 result.*



blowing

**BLOW: Blow continuously** into the mouthpiece. The long 'beep' signals sample is being collected.

'beep beep' Keep blowing and stop blowing until you hear a loud 'beep' 'beep' sound.



**ANALYZE:** Tester starts analyzing the collected breath sample and shows "---" (Calculating).



**DISPLAY RESULT:** Wait for a short while and the BAC result would be displayed.

*\* The unit may long beep when collecting sample and result as 0.00. This happens because there is a possibility to measure a very low presence of other substance in your breath (eg: bad breath). Otherwise if the unit detects absolute no alcohol, the unit will not long beep and result as 0.00*

*\*\* At some occasion, the unit may display result as “□□E”. This happens because the test has been conducted in either too cold or too hot temperature environment. Please bring the tester back to a normal room temperature environment. You might need to wait few minutes for the sensor inside the tester to stable down to room temperature condition before conduct a re-test.*

*\*\*\* Tester will turn off automatically in 30 seconds. You can also turn off the tester by pressing the 'POWER' button.*

## Suggested wait time between tests

It is recommended to wait few minutes (3-5 mins) between each tests for normal alcohol concentration tests.

For high alcohol concentration test, it is recommended to wait 10 mins or so before conduct next test. This gives time for the strong alcohol residue formed on sensor to be cleared. It also helps to keep the healthy state of the sensor and test results consistency.

## Test Record memory mode

### **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.

In case you would like to reset this counter, you could long press SELECT button until you see the counter is reset to zero.

### Display last 16 test records:

And then press 'POWER' button again to display the latest test record (indicated by the serial number '1' on screen, followed by the corresponding result) Press 'SELECT' button to display the next test records sequentially upto the 16th test record history.

To exit the test record memory mode, 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 2.00‰BAC / 0.200%BAC / 1.00mg/L).
FLo	This message (Flow) means insufficient or uneven blowing is detected. Kindly perform another test. (see 'How to use' steps)
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. Another cause is the environmental surrounding temperature is high. In this case, kindly perform another test. (see 'How to use' steps)
Lo	This message means Low Battery. Replace a new CR2032 battery.
Out	This message means the test has been conducted in either too cold or too hot temperature environment. Please bring the unit back to a normal room temperature environment. Suggest to wait few minutes for the sensor inside the unit to stable down to room temperature condition before conduct a re-test.

## Precautions

1. Allow at least 15-20 mins after drinking, smoking before testing. Rinse mouth with water before testing.
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 0.010% BAC OR 0.050mg/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 if you could operate vehicle or not. The BAC result displayed is for reference only. Manufacturer and dealer disclaims any legal responsibility for the measured / estimated test value.

## 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 material and workmanship under normal use for a period of ONE (1) YEAR from the date of purchase. Contact your dealer for details.

## Calibration

The unit 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.

Contact your local distributor for calibration information.

## Specifications

BAC Detection Range	0.00 to 2.00 ‰BAC (i.e: 0.000 to 0.200%BAC or 0.00 to 1.00 mg/L)
Accuracy	+/- 0.1 ‰BAC or +/- 0.01 %BAC or +/-0.05mg/L at cal. point
Warmup	Between 10-20 seconds
Response time	Within 10 seconds
Sensor	Fuel cell sensor
Power	One CR2032 Battery

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

alkoSure<sup>®</sup> Nano