

DIGITAL PERSONAL BREATHALYZER

AlcoMate Core



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The AlcoMate Core (Model AL6000 Lite) analyzes a breath sample to detect alcohol in the lungs. This reading is then converted to blood alcohol concentration (BAC). The AlcoMate Core uses an advanced oxide semiconductor sensor to detect alcohol.

- Device Setup and Operation -

If you are using the Core for the first time, please install two 1.5V AA batteries (included) and attach a mouthpiece (included) to the unit.

1. Instructions

- a) Press and hold the Power Switch to turn the unit on. The cumulative test count will be displayed as you hold the Power Switch down. You can use the cumulative test count to see when you should recalibrate the alcohol sensor (every 200 tests or at least once yearly).
- b) Release the Power Switch. There will be a countdown from **250** to **0** as the unit warms up.
- c) Secure your lips around the mouthpiece and blow sharply and steadily into the unit for about 4 seconds. You will hear two beeps when the device is done taking the breath sample. You will see the digit **0** moving left to right in the display as the device analyzes the sample.
- d) When analysis is complete, you will see the blood alcohol concentration (BAC) results displayed.
- e) The results will be shown for about 15 seconds. The unit will then shut itself off.
- f) If the device cannot take a successful sample, you will see **Out** in the display and the unit will shut itself off.

2. Understanding Your Results (BAC Reading)

Your Reading	Your Range	Description
0.00% to 0.01%	Safe* range	Little/no alcohol intake.
0.02% to 0.04%	Moderate* range	Increased alcohol intake.
0.05% and over	Warning* range	Ability to drive may be impaired.

** Drinking alcohol in ANY amount may impair the ability to drive. There is no "safe" level of alcohol intake before driving. Don't drink and drive.*

Note: The maximum reading the device can show is 0.40%. A true BAC of 0.40% or above may result in the onset of coma or even death by respiratory arrest. A reading of 0.40% may indicate an acutely dangerous condition, but may also indicate a sampling error (such as liquid alcohol blown into the device). Please carefully read the **Warning section** of this manual before operating the device.

- General Information about DUI/DWI -

The legal limit for intoxication (DUI/DWI) is **0.08%** BAC across most of the USA. According to the American Medical Association (AMA), a BAC of **0.05%** is enough to impair the ability to drive. You should never operate a motor vehicle when you are impaired by the consumption of alcohol, drugs or lack of proper rest.

- Warnings and Error Codes -

Warnings and Precautions

- **WAIT AT LEAST 20 MINUTES AFTER EATING OR DRINKING BEFORE TESTING.** A breathalyzer examines “lung air” samples, not “mouth air” to calculate alcohol content. Any “contaminants” in the mouth, including alcohol, food, smoke, or even excess saliva, may interfere with testing. This includes alcohol-based mouthwash or similar products. **This is the most common cause of improper use and incorrect results.**
- Avoid testing in high wind or enclosed spaces. Poor ventilation may also lengthen the time required for warm up between tests.
- Do not blow smoke, saliva or other contaminants into the mouthpiece, as the sensor may become damaged.
- **Do NOT use the AlcoMate Core as a tool to drink and drive.**
- Keep out of extreme temperatures and out of the reach of children.
- **To maintain accuracy, the sensor inside the AlcoMate Core must be recalibrated every 200 tests or at least once a year (whichever comes first).** Large numbers of "high positive" (high alcohol) readings may require recalibration of the sensor much sooner than normally expected. To recalibrate, you must mail your device to the address at the end of this manual. Please contact us for details and related fees.

Troubleshooting

- **WARNING DISPLAY “Flo”:** If you see “Flo” in the display, the breath sample was not strong or long enough for measurement. Please try again and make sure the breath is strong and steady during sampling. As soon as you start blowing into the device, you will hear a long beep indicating how long you should blow.
- **WARNING DISPLAY “SEn”:** If you see "SEn" in the display, there is a general sensor module error. Please contact us for technical service.
- **WARNING DISPLAY “bAt”:** If you see “bAt” in the display, the battery power is low. Please replace the batteries with a brand new pair. Make sure to properly align the batteries by looking at the +/- marks.
- **WARNING DISPLAY “Err9”:** Power source is too weak to complete operation. Please replace batteries with a new pair.
- For the other troubles, please contact AK GlobalTech at support@alcomate.net, along with your error codes and photos if available.

- Specifications -

Method of Measure	Breath sample to BAC
Detection Range	0.00% - 0.40% (Accuracy: +/- 0.01% up to 0.10% BAC)
Sensor	Oxide semiconductor
Power	Two 1.5V AA alkaline batteries (included)
Warm-up Time	Less than 1 minute
Testing Capacity	Approx. 200 with new batteries
DOT Approved	YES
Operating Temperature	50 - 104 degrees Fahrenheit or 10 - 40 degrees Celsius
Display	3-Digit LCD (0.00)
Dimensions	4.9" H x 2.8" W x 1.6" D
Weight	4.1 oz
Recalibration	In lieu of traditional calibration, the sensor module must be calibrated every 200 tests or at least once yearly, whichever comes first.
Warranty	One (1) Year (Refer to "Warranty" section)

- Limited Warranty -

Manufacturer's Warranty Coverage

AK GlobalTech Corporation warrants the AlcoMate Core to be free from defects in workmanship or material, excluding calibration, under normal use for one (1) year from the date of purchase. AK GlobalTech's obligation under this warranty is limited to replacing, adjusting or repairing the unit only if returned along with proof of purchase, complete shipping address, daytime contact phone number and written explanation. The warranty is void if the unit has been tampered with (excluding the opening of the rear cover as specifically described in this manual) or maliciously damaged. The calibration of the device is a required periodic maintenance procedure required of any and all breathalyzers in order to maintain accuracy (every 200 tests or at least once per year, whichever comes first), and as such, is not a warranty service. Warranty does not include shipping costs to AK GlobalTech. Warranty is non-transferable.

Disclaimer

AK GlobalTech makes no warranties, express or implied, as to the ability of this product to determine whether, or the extent to which, a test subject's mental or physical functioning, or judgment, may be impaired by blood alcohol including whether the test subject is intoxicated under any definition of that word. AK GlobalTech expressly disclaims any liability for direct, indirect, incidental, special, or consequential damages of any nature under any legal theory. Any act or failure to act based on a reading from this product shall be at the test subject's or user's own risk.

AK GlobalTech assumes no responsibility for consequences to or of test subjects who use this product and later are shown to have been under the influence of alcohol or to have had their judgment or any mental or bodily function impaired by alcohol.

Correlation between breath alcohol content and blood alcohol concentration depends on many variables, including environmental factors (such as air quality, wind, humidity, temperature, etc.) and health conditions of the test subject. A low g/dL or %BAC reading does not mean that the test subject's physical or mental performance or judgment (including reaction times) can respond to an emergency. The concentration of alcohol in the blood of a test subject cannot be exactly determined by using a breath alcohol screening product.

AK GlobalTech does not warrant that the operation of the product will be error-free. AK GlobalTech is not responsible for any consequences arising from failure to follow instructions or relating to the product's use. This warranty does not apply: (a) to consequences caused by accident, abuse, tampering, misuse, flood, fire, earthquake or other external causes; (b) to consequences caused by operating the product outside the permitted or intended uses described by AK GlobalTech; (c) to consequences caused by service performed by anyone who is not an official representative, reseller or distributor of AK GlobalTech; or (d) to a product or part that has been modified to alter functionality or capability without the written permission of AK GlobalTech.

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This warranty gives you specific legal rights, and you may also have other rights that vary by country, state or province. This Limited Warranty is governed by and construed under the laws of the country in which the product purchase took place.

Technical Support

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