

DIGITAL PERSONAL BREATHALYZER

AlcoMate® Premium AL7000



AlcoMate Premium AL7000 Operator's Manual

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The AlcoMate Premium (Model AL-7000) is our new flagship breathalyzer that provides you with the most advanced, accurate and convenient breath testing system available. The Premium never requires calibration through the use of patent-pending **PRISM™ (Pre-calibrated Replaceable Intelligent Sensor Module) Technology**. With the unique easy-replace sensor panel, module replacement takes just a few seconds!

The AlcoMate Premium's **PRISM™ Sensor Technology** uses advanced next-generation components to improve upon prior oxide semiconductor technologies and introduces a level of accuracy, reliability and ease-of-use never before achieved among portable screening breathalyzers. Accessories for the BASIC PACK include a





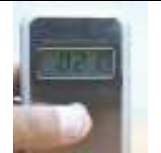





pre-installed sensor module, batteries (x2), mouthpieces (x5) and compact carrying bag. The FULL PACK additionally includes a field test kit (large zippered bag) and power car adapter.







Note: The only legally valid measure of %BAC (percent Blood Alcohol Concentration) is obtained by blood testing or other evidential method of measurement. This device is for screening purposes only and should be used as a monitoring guide. This device must be used strictly in accordance with the instructions provided with the product.

- Device Setup and Operation -

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

1. Instructions

			
Press and hold the Power Button to turn the unit on.	The cumulative test count will be displayed as you hold the Power Button down.	The display may alternately show "nor", which is short for normal operation.	The back-lit digital display shows results clearly during day or night conditions.
			
Release the Power Switch. There will be a countdown as the unit warms up. The display will show "blow" when ready.	Secure your lips around the mouthpiece and blow sharply and steadily into the unit for about 4 seconds.	If you see "Flow" in the display, the breath sample was not strong or long enough for measurement. Please try again.	If the device cannot take a successful sample, you will see "Out" in the display and the unit will shut itself off.
	Battery Replacement		
The results will be shown for about 15 seconds. The unit will then shut itself off.	Remove the battery cover at the rear of the unit and replace the old batteries with two new 1.5V "AA" batteries. Make sure to properly align the batteries by checking the +/- orientation.		Note: There is a Mouthpiece Storage Slot between the batteries. The Slot holds 2 mouthpieces.

Sensor Module Replacement Please take the following steps to install a new sensor module. (VERY IMPORTANT: The device MUST BE TURNED OFF in order to avoid IMMEDIATE DAMAGE to the sensor.)			
		Open the easy-replace sensor panel.	You will see the sensor module.
			
Remove the module by pulling it straight back.	Insert a new sensor module in the original position.	Make sure the new sensor module is firmly secured.	Close the easy-replace sensor panel. Ready for testing!

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 Premium 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 Premium 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.

Troubleshooting

- **WARNING DISPLAY “Flow”:** If you see “Flow” 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 “Cal”:** If you see “Cal” in the display, the Premium needs a new sensor module. **If the cumulative test counter reaches 300 tests, the Premium will display Cal automatically. Please purchase and install a new sensor module.**
- **WARNING DISPLAY “bAt”:** If you see “bAt” in the display, the battery power is low. Please replace the batteries with a new pair. Make sure to properly align the batteries by looking at the +/- marks.
- **WARNING DISPLAY “Err2”:** If either of these codes appear in the display, the device is reporting a general problem with the alcohol sensor, or that the device has been physically damaged. Please replace sensors or contact AK GlobalTech Corp for technical support.
- **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	BrAC (Breath Alcohol Content) to %BAC (percent Blood Alcohol Concentration)
Detection Range	0.00% - 0.40% (Accuracy: +/- 0.01% up to 0.10% BAC)
Sensor	Advanced Oxide Semiconductor (2 nd Generation)
Power	Two 1.5V AA alkaline batteries (included)
Warm-up Time	Less than 1 minute
Testing Capacity	Approx. 100~200 with new batteries
DOT Approved	YES
Operating Temperature	50 - 104 degrees Fahrenheit or 10 - 40 degrees Celsius
Warm Up	Less than 1 minute
Display	4-digit back-lit LCD display (0.000%)
Dimensions (inch)	4.2 H x 2.0 W x 0.75 D
Weight (oz)	1.8 oz (without batteries)
Sensor Module	Sensor modules should be replaced every 200 tests or at least once yearly (whichever comes first). Modules should also be replaced if damaged or expired.
Warranty	One (1) Year (Refer to "Warranty" section)

- Limited Warranty -

Manufacturer's Warranty Coverage

AK GlobalTech Corporation warrants the Premium AL7000 to be free from defects in workmanship or material, excluding spent or used sensor modules, 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. Sensor Module replacement is a cyclical maintenance procedure that is required by the AlcoMate Premium to maintain accuracy, and as such, is NOT covered under warranty. Sensor Module replacement eliminates the need for re-calibration (a non-warranty service which is also a cyclical maintenance procedure) required by all traditional breathalyzers.

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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EXCEPT AS PROVIDED IN THIS WARRANTY AND TO THE MAXIMUM EXTENT PERMITTED BY LAW, AK GLOBALTECH IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES UNDER ANY LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOSS OF USE; LOSS OF REVENUE OR INCOME; LOSS OF ACTUAL OR ANTICIPATED PROFITS (INCLUDING LOSS OF PROFITS FROM A CONTRACT); LOSS OF THE USE OF MONEY; LOSS OF ANTICIPATED SAVINGS; LOSS OF BUSINESS; LOSS OF OPPORTUNITY; LOSS OF GOODWILL, OR LOSS OF REPUTATION.

Some countries, states and provinces do not allow the exclusion or limitation of incidental or consequential damages or allow limitations on how long an implied warranty or condition may last, so the above limitations or exclusions may not apply to you.

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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