



USER MANUAL

CONTENTS

I	INTRODUCTION	1
II	WHAT'S THE DEAL WITH ALCOHOL?	2
III	HOW DOES ALCOHOL AFFECT MY DRIVING?	5
IV	SPECIFICATIONS	6
V	MOBILE APP	7
VI	OPERATING PROCEDURE	8
VII	HOW TO INTERPRET THE RESULTS?	12
VIII	PRECAUTIONS AND CALIBRATION	15
IX	WARRANTY	15
X	DISCLAIMER	17



INTRODUCTION

The Breathometer portable breathalyzer is intended to measure alcohol in human breath. The ratio of breath alcohol to blood alcohol is approximately 2,100:1. This means that 2,100 mL of alveolar air contains the same amount of alcohol as 1 ml of blood. Using this ratio, measurements from the breath can be used to calculate a respective level of intoxication.

Breathometer aims to be a small, easy-to-use device that you can take with you on the go. The device must be plugged into the headphone jack of your iOS or Android smartphone to function correctly. After downloading the Breathometer app from the App Store or Google Play, you'll be able to take readings from the device. The device will be capable of taking readings in the range of 0.00% to 0.20% BAC.



WHAT'S THE DEAL WITH ALCOHOL?

With every sip consumed, alcohol is absorbed by your body and makes its way through your mouth, stomach, small intestine, heart, brain, liver, kidneys, lungs and skin.

Alcohol is a depressant. It has a relaxing effect on the muscles in your body. The muscles of your eyes relax and lose focus. Your eyesight will become fuzzy and you may experience double vision. As we've said, your brain is affected. Brain activity is slowed. Your judgment, reflexes, and coordination are all negatively affected.

Some vision impairments that occur when you have been drinking include:

- Narrowing of your field of vision
- Reduction in your depth perception
- Decreased ability to see in darkness
- Increased sensitivity to glare and a longer time for your eyes to re-adjust from glare

Some mental (brain) impairments that occur when you have been drinking include:

- Reduced awareness of danger
- Becoming over-confident and reckless
- Decision-making becomes difficult
- Reduction in balance
- Slowed reflexes
- Impaired judgement



HOW DOES ALCOHOL AFFECT MY DRIVING?

“We can’t emphasize enough how dangerous it is for you to drink and drive. Your vision and your brain are the most important factors to driving safely. If you jeopardize either one by drinking and driving, you are likely to be involved in a serious or fatal collision.”

From California Department of Motor Vehicles (<http://www.dmv.ca.gov>)

IV

SPECIFICATIONS

SIZE	67mm x 34mm x 17mm
WEIGHT	33g
WARM UP TIME	5-15 seconds
BLOWING TIME	5 seconds
BATTERY LIFE	Approximately 75 tests
BAC RANGE	0.00% - 0.20%
OPERATING TEMPERATURE	50°F - 104°F (10° C - 40° C)
CALIBRATION	250 tests

The accuracy of this Breathometer device has been tested at BAC concentrations of 0.02% and 0.08%, however values beyond this point have not been evaluated.



MOBILE APP

In order to use the device, you must download the Breathometer mobile app from the App Store or Google Play onto your smartphone. Once you've done this, open the app and plug in your device. It should immediately recognize the device and be ready to take readings.

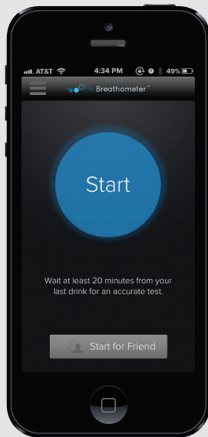
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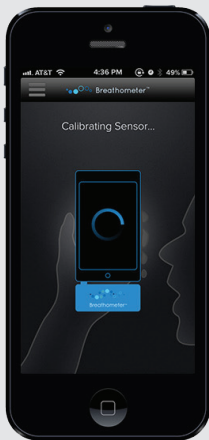
If for some reason the device is not recognized, try unplugging and re-plugging the device back into the headphone jack.

VI

OPERATING PROCEDURE

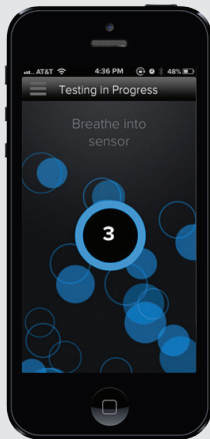
1 To ensure that your device provides an accurate reading, wait about 20 minutes after drinking, eating or smoking before taking a test. You should also wait about 20 minutes between successive tests to avoid any inaccurate readings.

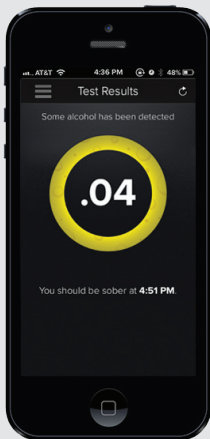




2 Open the Breathometer app and plug the device into the headphone jack. When you're ready, press the "Start" button and sensor warm up will begin.

3 When the screen reads “Breathe into Sensor” and the LED starts flashing, take a deep breath and exhale smoothly and steadily into the lit blow tube for 5 seconds or as long as you comfortably can. Keep an inch between your mouth and the blow tube for optimal results.





4 After you've blown, the app will display an analyzing screen and after a few moments, your current BAC reading. Your Back to Zero™ time tells you what time you'll be sober, assuming you don't consume any additional alcohol.

A FEW TIPS:

- During the blowing process, you may be shown a testing error screen. If this happens, it likely means the breath was not long enough. Press the “Try Again” button and take another breath.
- Do not unplug the device during the testing process; doing so will require you to start a new test from the beginning.

VII HOW TO INTERPRET THE RESULTS?

The generally accepted legal limit for blood alcohol concentration in the United States is 0.08%. However, your operation of a vehicle can be impaired at levels of 0.04% or lower. It is not safe to drink any alcohol and drive.

BAC	TYPICAL EFFECTS*
0.02-0.03%	<ul style="list-style-type: none"> • Some loss of judgement • Relaxation • Slightly body warmth • Altered mood
0.04-0.06%	<ul style="list-style-type: none"> • Exaggerated behavior • May have loss of small-muscle control (e.g., focusing your eyes) • Impaired judgement • Usually good feeling • Lowered alertness • Release of inhibition
0.07-0.09%	<ul style="list-style-type: none"> • Muscle coordination becomes poor (e.g., balance, speech, vision, reaction time, and hearing) • Harder to detect danger • Judgement, self-control, reasoning, and memory are impaired

0.10-0.12%	<ul style="list-style-type: none"> • Clear deterioration of reaction time and control • Slurred speech, poor coordination, and slowed thinking
0.13-0.15%	<ul style="list-style-type: none"> • Far less muscle control than normal • Vomiting may occur (unless this level is reached slowly or a person has developed a tolerance of alcohol) • Major loss of balance
0.16-0.20%	<ul style="list-style-type: none"> • Dysphoria predominates • Nausea may appear

*Information in this table shows the BAC level at which the effect usually is first observed, and has been gathered from a variety of sources including the National Highway Traffic Safety Administration, the National Institute on Alcohol Abuse and Alcoholism, the American Medical Association, the National Commission Against Drunk Driving, and <http://www.webMD.com>



PRECAUTIONS AND CALIBRATION

To ensure reliable results from your Breathometer device, it should be calibrated every 6-12 months, 250 tests or if you feel you are receiving inaccurate readings.



WARRANTY

The limited warranties provided by Breathometer apply only to new Breathometer devices that you purchased in the United States directly from Breathometer or an authorized Breathometer reseller for your own use, and not for resale.

Breathometer warrants that the Breathometer device will be free from defects in workmanship and materials, under normal non-commercial use, for one (1) year from the original purchase date.

Our warranties do not apply to:

- Software, including any firmware, operating system or application software delivered to you either prior to or subsequent to delivery of the Breathometer to you;
- Any website services provided by Breathometer or third parties in connection with the Breathometer Product;
- Damage to the surface of the Breathometer Product, including cracks or scratches to the enclosure, or any other cosmetic damage;
- Damage that results from accident, abuse, misuse, neglect or any use of the Breathometer Product other than for its intended use;

- Damage that results from any unauthorized attempts to open, maintain, repair or modify the Breathometer Product; and
- Damage that results from the Breathometer Product being subjected to abnormal physical, thermal or electrical stress, including water, dust, power fluctuations or other hazards.



DISCLAIMER

Breathometer, Inc. makes no warranties, expressed or implied as to the ability of this device to determine whether a user is impaired or able to safely drive a motor vehicle or operate machinery.



WWW.BREATHOMETER.COM

330 PRIMROSE RD., SUITE #407, BURLINGAME, CA 94010