**BACtrack Z9 (BT-Z9)**
Product Manual

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This device is intended to measure alcohol in human breath. Measurements obtained by this device are used in the diagnosis of alcohol intoxication.

## INTRODUCTION

The BACtrack® is an alcohol screening device, used for the detection of alcohol in the breath. The BACtrack provides a digital result indicating the approximate BAC (Blood Alcohol Content) of the test subject. The BACtrack is easy to use; simply turn on the unit and begin testing in a matter of seconds.
Before you begin testing, please read this manual in its entirety and familiarize yourself with the BACtrack.

Your Breathalyzer is powered by a battery that can be recharged via the USB-C cable provided. Simply use the cord to plug the unit into a USB slot and the charging will begin.

## ALCOHOL AND ITS EFFECTS ON THE HUMAN BODY

Alcohol is absorbed from the mouth, throat, stomach, and intestines into the bloodstream. Alcohol ingested by the human body can be detected in the breath because of its presence in the bloodstream. Alcohol cannot be digested and it cannot be chemically changed in the bloodstream. As the blood flows through the lungs, alcohol in the bloodstream moves across the membranes of the lung's air sacs (alveoli) into the air. The concentration of the alcohol in the alveolar air is directly related to the concentration of the alcohol in the blood. As the alveolar air is exhaled, the alcohol in it can be detected by the breath alcohol testing device.

The alcohol concentration in the breath is related to that in the blood, and because of this, an individual's BAC can be determined by measuring alcohol in the breath. The ratio of breath alcohol to blood alcohol is generally estimated to be 2,100:1. Therefore, 2,100 milliliters (ml) of alveolar air will contain approximately the same amount of alcohol as 1 ml of blood.

## ALCOHOL IS A DRUG

Alcohol is the chemical (ethanol or ethyl alcohol) resulting from the fermentation of grapes or grain. Alcohol is absorbed directly into your bloodstream. From your bloodstream, the fluids in your body tissues absorb the alcohol. Your brain is made up of a large concentration of fluids and will absorb a large amount of any alcohol you drink. Your liver eliminates the absorbed alcohol at its own rate of time and nothing you eat or drink can speed up the process. Your liver does this by oxidizing the alcohol (converting it into water and carbon dioxide). Coffee, food or any other "cure" will not sober you up; only time will do that.

**HOW DOES ALCOHOL AFFECT MY BODY?**

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. 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 readjust from the glare

Some mental impairment can occur when you have been drinking, including:

- Reduced awareness of danger Becoming overly confident and reckless
- Difficulty in making decisions
- Reduction in balance
- Slowed reflexes
- Impaired judgment

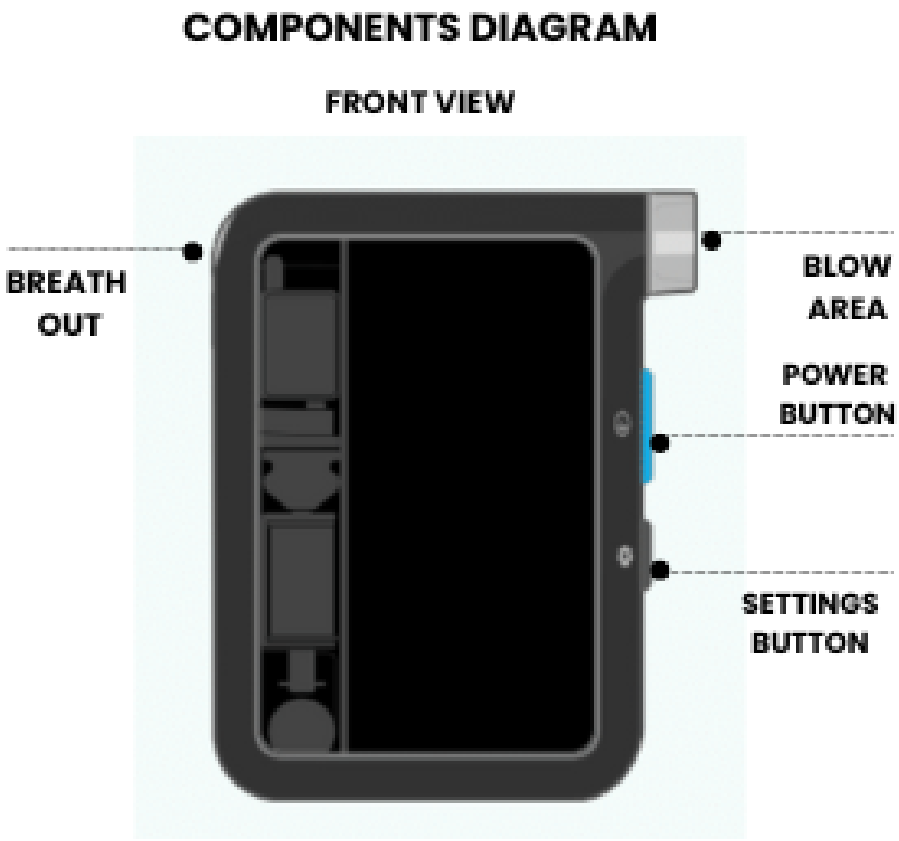
**HOW DOES ALCOHOL AFFECT MY DRIVING?**

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 in driving safely. If you jeopardize either by drinking, and then you drive, you are likely to be involved in a serious or fatal collision.

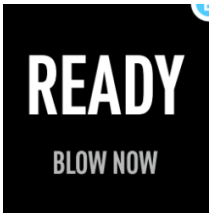
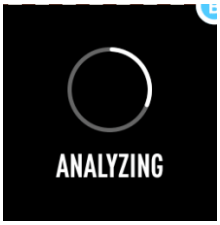
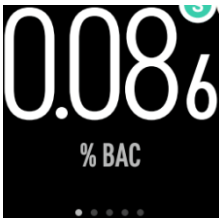
Do not use your BACtrack as a tool to determine whether you should operate a motor vehicle or equipment, or perform any other dangerous act. Do not drink and drive. Always have a designated driver when alcohol is being consumed.

From California Department of Motor Vehicles (http:ltwww.dmv.ca.gov

**COMPONENTS DIAGRAM**



**OPERATION**

| | |
|---|---|
| Press the Power Button on your BACtrack for one second to turn on the device. |  |
| Your BACtrack will display “Warming Up” |  |
| When the BACtrack displays READY, inhale a deep breath and blow steadily and consistently for six seconds through the mouthpiece. |  |
| Stop blowing when the beeping sound stops. There is a click at the end - that’s the air pump pulling air across the sensor. |  |
| Once the sensor has analyzed the breath sample, the estimated BAC value is displayed. |  |

**SPECIFICATIONS**

DIMENSIONS
89.5 x 71 x 16 mm
WEIGHT
0.09 kg
DETECTION RANGE
0.000 – 0.400 %BAC
POWER SUPPLY
Lithium-ion Battery
OPERATING TEMPERATURE
32-104 °F (0-40 °C)
VOLTAGE:
5V USB charging at 500mA maximum current

**PRECAUTIONS**

- Wait at least 20 minutes after drinking, eating or smoking before testing. Not observing this waiting period can cause inaccurate readings and damage the sensor.
- Do not blow smoke, food, or liquids into the BACtrack because this will damage the sensor.
- Do not test in areas with strong winds, smoke, or in an area where a large amount of alcohol is being consumed.
- Avoid testing in the presence of any substances that contain methyl alcohol, isopropyl alcohol or acetone. These substances may interfere with the results of the test.
- Send your tester in for periodic calibration service as required. (See Calibration).
- The BACtrack Breathalyzer is designed to be used in a temperature range of 32-104 °F (0-40 °C).
- You cannot use the results of this product in court
- Do not use the BACtrack as a tool to determine whether you should operate a motor vehicle or equipment, or perform any other dangerous act.
- Do not drink and drive. Always have a designated driver when alcohol is being consumed.

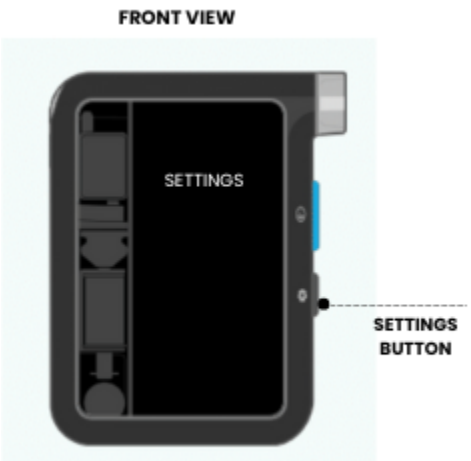
**CALIBRATION**

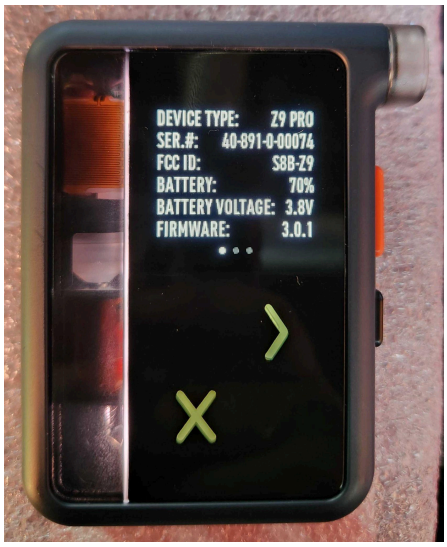
All BACtrack products are calibrated during the manufacturing process and should remain accurate for 6 to 12 months depending on the number of tests performed and operating conditions. If the product is used every day, it may need to be recalibrated as frequently as every month.

**CALIBRATION INSTRUCTIONS**

Please visit www.bactrack.com/calibration or call (415) 693-9756 for information on how to get your BACtrack calibrated.

**ACCESSING REGULATORY INFORMATION**

| | |
|---|---|
| Press the Power Button on your BACtrack for one second to turn on the device. |  <br>Press Test<br>Button to Start |
| Press the Settings Button to navigate to the settings menu. |  |

| | |
|---|---|
| From the Settings page, toggle the arrows right until you reach the “About” section |  |
| Press the Check Mark to view the screen |  |
| The Regulatory Information will populate here on this display. |  |

**OBTAINING WARRANTY SERVICE**

Please be sure to read this instruction manual carefully if you believe your product is not operating properly. If you still feel that your product requires warranty service, please follow these instructions:
Obtain a Return Authorization (RA) number by emailing support@bactrack.com
When shipping the product back to KHN Solutions LLC, please package the product carefully and ship using a major carrier (UPS, FedEx, USPS, etc). To ensure proper credit for a returned item, be sure to obtain a delivery confirmation on the return shipment. The customer is responsible for all return shipping charges.
Include the following information with your returned product:

Your Return Authorization number
Name, address, and phone number as stated at the time of order
A copy of your original sales receipt

Per FCC 15.19(a)(3) and (a)(4) This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by KHN Solutions LLC may void the user's authority to operate the equipment.

Per RSS-Gen, Section 8.4 This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

**RF Exposure Information**
This device complies with Innovation, Science and Economic Development Canada (ISED) RF exposure requirements set forth in RSS-102.
To maintain compliance with RF exposure guidelines, a minimum separation distance of 5 mm must be maintained between the device and the user during operation.

**Informations relatives à l'exposition aux radiofréquences (RF)**
Cet appareil est conforme aux exigences d'Innovation, Sciences et Développement économique Canada (ISDE) relatives à l'exposition aux radiofréquences énoncées dans la norme RSS-102.
Afin de maintenir la conformité aux directives d'exposition aux RF, une distance minimale de séparation de **5 mm** doit être maintenue entre l'appareil et l'utilisateur pendant le fonctionnement.

**DO NOT DRINK AND DRIVE**

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