



# **AlcoHAWK<sup>®</sup> PRECISION**

## Owner's Manual

# TABLE OF CONTENTS

<b>INTRODUCTION</b>	<b>1</b>
Intended Use	1
Overview	1
Effects of Alcohol	1
<b>PREPARATION</b>	<b>3</b>
Installing the Battery	3
Inserting a Mouthpiece	4
<b>COMPONENTS DIAGRAM</b>	<b>4</b>
<b>OPERATION</b>	<b>5</b>
<b>READ THE RESULTS</b>	<b>6</b>
<b>ERROR MESSAGES</b>	<b>6</b>
<b>PRECAUTIONS</b>	<b>7</b>
<b>SPECIFICATIONS</b>	<b>8</b>
<b>ACCESSORIES</b>	<b>9</b>
<b>CALIBRATION</b>	<b>9</b>
<b>WARRANTY</b>	<b>9</b>
<b>DISCLAIMER</b>	<b>10</b>

# INTRODUCTION

## **Intended Use**

This breath alcohol tester is intended to measure alcohol in human breath. Readings from this device are used to determine alcohol intoxication. The accuracy of this device has been proven at a Blood Alcohol Concentration (BAC) of 0.008 and 0.032. Accuracy at a BAC greater than .032 has not been established.

## **Overview**

This device provides a digital reading of a person's approximate blood alcohol concentration (BAC) in seconds. The AlcoHAWK® Precision is powered by a 9 volt battery that generally lasts between 100-200 tests when using an alkaline battery. Please read this entire manual before use.

## **Effects of Alcohol**

Variations among people and other factors, such as altitude and air temperature, affect the degree of intoxication. Some people may become intoxicated at low BAC levels. A low BAC on a breath alcohol tester does not mean that a person's reaction times can respond to any emergency. You should not drink alcohol and drive or use any machines after consuming alcohol. There is no safe way to drive under the influence of alcohol. Even one drink can make you unsafe.

<b>BAC</b>	<b>Dose-Specific Effects</b>
0.020-0.039% <sup>1</sup>	Generally no loss of coordination. Slight joy or loss of shyness. Depressant effects are not clear.
0.040-0.069%	General feelings of well-being, relaxation, shyness is reduced and sensation of warmth. Joy. Some minor impairment of reasoning and memory. Lowering of caution. Driving skills may be impaired.
0.070-0.099%	Slight impairment of balance, speech, vision, reaction time, and hearing. Joy. Judgment and self-control are reduced. Caution, reason and memory are impaired. Driving skills are always impaired.
0.100-0.129%	Major impairment of motor coordination and loss of good judgment. Speech may be slurred. Balance, vision, reaction time and hearing will be impaired. Joy.
0.130-0.159%	Gross motor impairment and lack of physical control. Blurred vision and major loss of balance. Joy reduced and state of feeling unwell begins to appear.
0.160-0.249%	Anxiety, restlessness predominates. Nausea may appear. Appearance of a "sloppy drunk."
0.250%-0.299%	Needs assistance in walking. Total mental confusion. State of feeling unwell with nausea and some vomiting.
0.300%-0.399%	Loss of consciousness.
0.400% +	Onset of coma. Possible death due to respiratory arrest. <sup>2</sup>

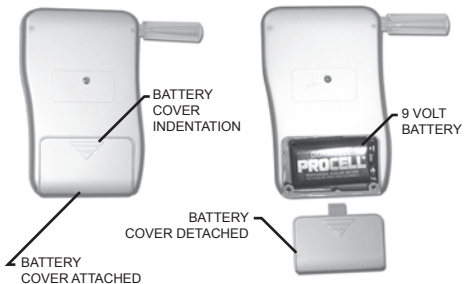
<sup>1</sup> Some individual's may experience impairment at BAC levels at .03% or even lower.

<sup>2</sup> Death can occur at a lower BAC level in some individuals.

# PREPARATION

## Installing the Battery

Apply a small amount of pressure on the battery cover located on the back of the unit and push down and away from the unit to release the cover. Use only 9 volt alkaline batteries. See the following diagram.



## Inserting a Mouthpiece

Insert the mouthpiece firmly into the hole located on the top of the left side of the unit. A gap of approximately 1/2 cm will remain between the larger portion of the mouthpiece and the side of the unit. See diagram below.



## COMPONENTS DIAGRAM



# OPERATION



## Operating Instructions

Wait **20 minutes** after the subject smokes, eats or drinks before testing. Failure to wait 20 minutes can give inaccurate BAC readings and harm the sensor.

**Step 1)** Insert a **NEW MOUTHPIECE** each time you perform a test.

**Step 2)** If it has been more than 24 hours since the device was last used, **PRIME THE SENSOR** by blowing into the mouthpiece for 4 to 5 seconds before turning on the device.

**Step 3)** **PRESS** the **Power On/Off** button. A single beep will sound and a green lamp will light below the PWR sign on the LED display. A yellow lamp will blink below the RDY sign on the LED display.

**Step 4)** **WAIT** until the **YELLOW LAMP STOPS BLINKING** and remains on, and you hear a **SINGLE BEEP**. The device is now ready for use.

**Note:** The device will not shut off until a test is performed or until 15 seconds of non use ends.

**Step 5)** Take a **DEEP BREATH AND BLOW STEADILY** (for at least 5 seconds) until a BEEP sounds to signal completion of the testing.

**Note:** The unit will display a 0.000 after approximately 1 – 2 seconds if a trace level of alcohol is not detected in the breath sample (i.e., at least 0.001% BAC).

**Step 6)** For more testing, wait one (1) minute and repeat steps 1 – 5.

## READ THE RESULTS

The result is an estimate of the subject's BAC. A breath alcohol tester cannot determine the exact BAC in the blood of the subject. Correlation between BrAC and BAC depends on many factors, such as temperature and health conditions. Only use this device to screen for the presence of alcohol.

Many people consider a 0.02% or greater a positive test for alcohol in “zero tolerance” screening. Most states have 0.08% as the legal BAC limit for tasks such as operating a motor vehicle. Some states prohibit driving commercial vehicles or any vessel with a 0.04% BAC or higher. Many states prosecute individuals for driving under the influence at any level.

## ERROR MESSAGES

<b>Error Message</b>	<b>Cause and Course Of Action</b>
<b>SNR</b>	The sensor is not ready for testing. This can occur if the unit has not been used for several days and if the unit has not been primed. If the SNR message is displayed, press the Power On/Off button once to turn off the unit and follow the operating instructions again.
<b>Sht</b>	The user had a short exhale time during the test, which likely means the user did not exhale steadily and continuously for at least 5 seconds. Repeat test.



Error Message	Cause and Course Of Action
reP	The unit is signifying to repeat the test because the unit did not detect an even alcohol concentration in the breath sample. This can occur if the user varies the blowing force when performing a test or if the Exhaust Port (see Components Diagram) is obstructed. Repeat test.
H	The unit detected a very high alcohol concentration (above 0.400% BAC).
Err	The sensor has been damaged and will need to be returned for servicing. If this error message occurs more than two consecutive times, please contact Q3 Innovations for instructions to have your unit serviced.

## PRECAUTIONS



1. **Wait at least 20 minutes** after drinking, smoking or eating before testing.
2. Do not test in strong winds or in a closed room with smoke or alcohol present.
3. When the green light below PWR is blinking, replace the 9V alkaline battery.
4. Do not blow smoke, food or liquid into the unit.
5. Only use the unit in a temperature range of 10 - 40°C or 50 - 104°F. Operation above or below this range may affect the results.
6. Do not leave the unit connected to the AC/DC outlet when the unit is not being used.

7. Avoid testing in the presence of any liquids that contain any kind of alcohol or acetone. They may interfere with the results of the test.
8. Conditions that increase the amount of ketones on the breath, such as diabetes and low caloric intake, may cause a false positive test. (i.e., showing a non-zero reading despite not drinking alcohol)
9. Do not use this unit as a tool to determine whether you or anyone else should operate any motor vehicle or machinery.
10. Do not use this unit with an ignition interlock device or while inside a vehicle.
11. BAC changes over time depending on many factors. BAC at one time can differ from BAC a few minutes later.
12. You cannot use the results of this unit in court of law.
13. Do not let yourself or anyone else drink and drive. Always use a designated driver when you or anyone else drinks alcohol.

## SPECIFICATIONS

Housing	Shock resistant, molded plastic
Battery	9V Alkaline
Battery Life	100-200 tests <sup>1</sup>
Sensor	Sensitive semi-conductor sensor
Blowing Time	5 seconds
Response Time	3-10 seconds <sup>1</sup>
Digital Display	4 Digits ( 0.000 % B.A.C.)
Operating Temp	10 - 40°C (50 - 104°F)
Detection Range	0.000 - 0.400% BAC ( Blood Alcohol Content)
Air Sample	5 Second Deep Lung Sample
Calibration	Required periodically. Visit <a href="http://www.q3i.com">www.q3i.com</a> .
Operation	Single Button
Warranty	1 Year Limited Warranty

1. Estimates, results may vary.

## ACCESSORIES

Visit our online store at [www.q3ats.com](http://www.q3ats.com) to purchase the following accessories.

- Mouthpieces
- Wall Adapter
- Leather Carrying Bag
- Hard Case

## CALIBRATION

Calibration of the AlcoHAWK® Precision occurs during manufacturing using advanced alcohol simulation equipment. The manufacturer passing known alcohol concentrations through the sensor to set baseline values for testing. During testing, the unit compares users' breath samples to these baseline values. If the verification determines that the BAC is not consistent with actual BAC levels, a technician calibrates the unit. The accuracy of breath alcohol testers can fluctuate after six to twelve months, depending on frequency of use and operating conditions.

If the unit is providing inconsistent results or unusually high or low readings, the unit may need calibration. **A technician should recalibrate this unit at least every six to twelve months. Monthly calibrations may be required if the unit is used daily.**

Please visit [www.q3i.com](http://www.q3i.com) or call 888-399-1687 for calibration or support.

## ONE-YEAR LIMITED WARRANTY

Q3 Innovations (Q3I) warrants this unit to be free from defects in workmanship or material (excluding calibration) under normal use for ONE (1) YEAR from the date of retail purchase by the original buyer ("Warranty Period").

**The warranty covers parts and labor on covered repairs and ground freight back to the customer (USA only). Except as provided above, Q3I provides this product “as is.”**

**If a defect arises and Q3I receives a valid claim within the Warranty Period, at its option, Q3I will either (1) repair the product, (2) exchange the product with a product that is new or which has been built from new or serviceable used parts and functionally equivalent to the original product, or (3) refund the purchase price of the product. If a refund is given, the returned product becomes Q3I’s property. The warranty does not cover shipping to Q3I. The warranty is void if anyone tampers or abuses the unit.**

This warranty is limited to the original consumer purchaser and can not be transferred to any other owner.

**For warranty service please follow these instructions:**

1. Call 888-399-1687 or email [service@q3i.com](mailto:service@q3i.com) to obtain an RMA number. Return the unit postage paid, insured and in proper box.
2. You should obtain a proof of delivery receipt. You must pay the cost for shipping the unit to us.
3. You must enclose the following with the unit:
  - a. The completed RMA form (available at [www.q3i.com/support.php](http://www.q3i.com/support.php))
  - b. Your name, return address and description of the problem. (No PO Box)
  - c. Your phone number to reach you during the day.
  - d. A copy of your sales receipt or invoice.

## **DISCLAIMER**

Q3I makes no warranties, expressed or implied, as to the ability of this unit to determine whether, or to the extent to which, a test subject’s mental or physical functionality, or judgment, is impaired by blood

alcohol including whether the test subject is intoxicated, under any definition of that word. Q3I expressly disclaims any liability for incidental, special, or consequential damages of any nature under any legal theory. Any act or failure to act based upon a reading from this product is at the test subject's or user's own risk. Q3I assumes no responsibility for consequences to users or test subjects who use this product and are later under the influence of alcohol or to have had their judgment or any mental or bodily function impaired by alcohol. Correlation between BRAC and BAC depends on many variables, such as temperature and health conditions of the test subject. A safe or low BAC reading does not mean that the test subject's physical or mental performance or judgment (including reaction times) can respond to any emergency encountered. A breath alcohol tester cannot determine the exact concentration of alcohol in the blood of a test subject.

Q3I does not warrant that the operation of the product will be error-free. Q3I 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 Q3I; (c) to consequences caused by service performed by anyone who is not a representative of Q3I or a Q3I Authorized Service Provider; or (d) to a product or part that has been modified to alter functionality or capability without the written permission of Q3I.

TO THE EXTENT PERMITTED BY LAW, THIS WARRANTY AND THE REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL OR WRITTEN, STATUTORY, EXPRESS OR IMPLIED. AS PERMITTED BY APPLICABLE LAW, Q3I SPECIFICALLY DISCLAIMS ANY AND ALL STATUTORY OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS. IF Q3I CANNOT LAWFULLY DISCLAIM STATUTORY OR IMPLIED WARRANTIES, THEN TO THE EXTENT PERMITTED BY LAW ALL SUCH WARRANTIES ARE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY AND

TO THE REPAIR OR REPLACEMENT SERVICE AS DETERMINED BY Q3I IN ITS SOLE DISCRETION.

Q3I does not authorize any Q3I reseller, agent, or employee to make any modification, extension, or addition to this warranty. If anyone determines any terms to be illegal or unenforceable, the legality or enforceability of the remaining terms shall not be affected or impaired.

EXCEPT AS PROVIDED IN THIS WARRANTY AND TO THE MAXIMUM EXTENT PERMITTED BY LAW, Q3I 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 where the product was purchased.

**DO NOT DRINK ALCOHOL AND DRIVE**

**ALWAYS USE A DESIGNATED DRIVER  
AFTER DRINKING ALCOHOL**

**BE SAFE AND DRINK RESPONSIBLY**



# **Q3 INNOVATIONS**

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