

# ~~A~~lcolizer technology



## **Alcolizer HH3 Operations Manual**

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# Introduction

Congratulations on the purchase of your new *Alcolizer HH3*

Your new breathalyser is precision engineered using state of the art electronics and electrochemical fuel cell sensor technology to give reliable, accurate and trouble free operation.

**Alcolizer HH3 breath test devices are manufactured under ISO 9001:2008 Quality Assurance Scheme and certified to Australian Standard 3547-1997 for Type 2 devices.**

- ⚠ Please read this entire Operations Manual carefully before using the device for the first time - and retain for future reference.

**LI-ION POWERED VERSION:**

- ⚠ **ENSURE THE DEVICE IS FULLY CHARGED PRIOR TO USE.**
- ⚠ The battery charge cycle may take up to two hours to fully charge the battery pack.



*Disclaimer*

*The BAC reading obtained by correct use of this device is only considered accurate at the time you test yourself. Great care has been taken to ensure the accuracy of your reading. Neither the manufacturer, the distributor, nor the owner accepts liability or responsibility due to any action or claim arising from the reading produced by this device, whether used correctly or incorrectly.*

## General Information

1. To obtain an accurate reading do not consume alcohol or use mouth wash containing alcohol for at least 20 minutes prior to using this device.
2. Remember your Blood Alcohol Concentration (BAC) readings can continue to rise or fluctuate for up to 2 hours after you last consumed alcohol. Should your BAC readings be near or over the local legal limit, you are advised to stop drinking, wait 15 minutes and then retest yourself.
3. **DO NOT DRIVE** until a new test shows a decline in your BAC reading and your BAC reading is below the local legislation legal limit.
4. It can take up to 1 hour for the average person's system to absorb a 0.01 BAC reading before the level returns to zero. In such circumstances further testing later in the day or the following morning is strongly recommended.
5. **STORAGE:** Do not store device in direct sunlight or places where extreme temperature conditions can occur.







# HH3 Overview


Alcolizer HH3 functions are accessed via the   keys. Communication is via the USB port for downloading of data. The charging port for the Li-Ion powered device is located at the base of the instrument.



# Mouthpiece (B.A.C) Breath Test

Before taking a breath sample, ensure the subject has not consumed alcohol for at least 20 minutes.

1. Switch the device on by pressing either the **TEST**  or   keys.  
A company logo screen will appear for a period of five seconds prior to the operation screen displaying. The logo screen can be terminated sooner by pressing either the **TEST**  or   keys a 2<sup>nd</sup> time.

NOTE: To permanently display instrument serial number and date and time, hold  key down for extended period upon startup.

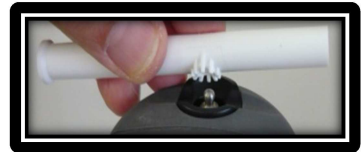
2. Fit a new mouthpiece to the device's sample inlet port.

**NOTE: Hygiene precautionary procedure.**

*Grasp the mouth piece at the “non ribbed end” and tear the plastic wrapping from the ribbed end, downwards to about half way.*

*Note the sample inlet hole is now exposed. “Roll” the mouth piece inlet hole onto the sample inlet port.*

*Remove the balance of the plastic wrap just prior to testing to ensure hygienic use.*



## HH3 Mouthpiece Options

- a) Spit Trap Non Return Valve Mouthpiece
- b) Standard Spigot Locator Mouthpiece



3. “Start Mouthpiece Test” screen will display.

Press **TEST**  key to perform test.

**Wait ...** screen will display while the device performs an internal self check.

(If self check is unsuccessful an error code will display and the device will not accept a breath sample).

4. After the internal self check is completed the **BLOW** screen will display.


The bar indicator displays the accumulated breath volume.

A breath sample will be taken when the bar indicator is filled.

-If any step in a breath test sequence is not completed or the device is left idle for a prolonged period of time, then the device will terminate the breath test and display **TEST TIMED OUT**, the operator will need to **TRY AGAIN**.

-The standard breath test time out period is 60 seconds.

-If a test time out does occur during a breath test, a new breath test must be performed.

-Press **TEST**  key to perform new breath test as per step 3 above.

5. Take a deep breath, place mouth over mouthpiece inlet (ribbed end) and blow a gentle to medium breath sample into the mouth piece.

The exhaled breath volume is indicated via a bar graph, scrolling left to right at the bottom the screen. A beeping sound is also heard during the breath sample delivery phase, indicating a satisfactory breath sample is being delivered.

Continue blowing until the device takes a sample of the exhaled breath volume, indicated by a click and long beep sound.

*Note: The frequency of the sound beeps increases with the intensity of the blow pressure. Blowing too hard or too soft will result in **INVALID SAMPLE TRY AGAIN** being displayed (see next screen).*

6. After a valid breath sample is taken, the **Analysing Sample** message is displayed until the device calculates your BAC reading.

This will normally take a few seconds. In cold climate conditions it may take longer to display your BAC reading.







7. When the BAC reading is calculated, it will be displayed on the screen together with unit of measurement (E.G: g/100mL) and retained until the **Recovering** period has ended; this is indicated by the **Recovering** indicator.

The **Recovering** period is the time the Fuel Cell sensor requires to recover from the previous breath test. This period will vary according to BAC readings displayed.

**To perform another breath test repeat steps above.**

## Passive Test (Without Mouthpiece)


A passive test is a test that is performed in a non invasive manner without using a mouthpiece. The test is performed by holding the device approximately 80mm to 100mm in front of the test subject's mouth and asking them to count or talk so that exhaled breath may be picked up by the device and analysed for the presence of any alcohol.


1. Switch the device on by pressing either the **TEST**  or   keys.  
A company logo screen will appear for a period of five seconds. The logo screen can be terminated sooner by pressing either the **TEST**  key a 2<sup>nd</sup> time. The instrument will automatically default back to the “**START Mouthpiece Test**” option. Follow the on screen display and press  key to access “**START Passive Test**” menu option.
2. Press **TEST**  key to perform Passive test. The device will perform an internal self check. (If self check is unsuccessful an error code will display).
3. After the device completes the internal self check and after a couple of seconds the **Ready** for passive Test screen will display.

-If any step in a breath test sequence is not completed or the device is left idle for a prolonged period of time, then the device will terminate the breath test and display **Test Timed out**.

-The standard Passive breath test time out period is 60 seconds.

-If a test time out does occur during a passive breath test, then a new passive breath test must be performed.

-Press the **TEST**  key to perform a new passive breath test as per step 2 above.

4. Hold the device no further than **100mm** in front of the test subject's mouth, so that the subject is breathing or talking directly into the device's sample inlet port. Ask the Subject to start talking / counting from 20 onwards, until you tell them to stop.  
“20...21...22...23...24...25...etc.” The subject should count in a one second rhythm. While subject is talking / counting, the operator must press the **TEST**  key to take a sample when they reach “24...25.”

*Note: The device is set to take 3 pump samples. During these 3 pumps the operator must hold the device steady and at the same distance from the subject. The HH3 will give 3 sample pump clicks, followed by a long beep sound. Analysing Sample will then appear.*

5. After a passive breath sample is taken, **Analysing Sample** message is displayed until the device calculates the passive BAC reading.

This will normally take a few seconds. In cold climate conditions it may take longer to display the passive BAC reading.

6. When the passive reading is calculated, it will be displayed and retained until the **Recovering** period has ended.

If a **PASS NO ALCOHOL** reading is displayed the device has indicated that no alcohol was detected in the near vicinity of subject's exhaled breath. When **Recovering** period has ended the device is ready for next passive breath test.

**To perform another passive breath test repeat steps above.**






7. If a **WARNING ALCOHOL PRESENT** reading is displayed the device has indicated that alcohol was detected in the near vicinity of subject's exhaled breath.



When a **WARNING** ALCOHOL PRESENT reading is displayed, it is strongly recommended that a **Mouthpiece Breath Test** be performed, after the recovery period has ended.



## Records

Records are retained in the instrument and can be downloaded via the Toolbox software support. It is recommended that records are periodically downloaded and erased from the device.

1. Switch the device on. The instrument will automatically default back to the “**START Mouthpiece Test**” option. Follow the on screen display and press  key to access “**Records**” menu option.
2. Press **TEST**  key to enter records module.
3. Press   keys to navigate through records.
4. Press **TEST**  key to exit records module.

## Shut Down

This function allows device to be switched off manually.


1. Switch the device on. The instrument will automatically default back to the “**START Mouthpiece Test**” option. Follow the on screen display and press  key to access “**Turn Off**” menu option.
2. Press **TEST**  key to manually switch unit off.

The device will switch off display back light after two minutes and power off after a further five minutes if no functions have occurred within that period (default values).

## Calibration Due Warning Message

The Alcolizer HH3 requires re-calibration every 6 months (190 days) as per Australian Standards Certification requirement.

1. Upon start up, the company logo screen displays the number of days to recalibration due.

2. To permanently display days to recalibration, instrument serial number and date and time, hold  key down for extended period upon startup.
3. When re-calibration warning message period has expired, the **Recalibration Due Now** screen is displayed and the device is locked, preventing any further breath tests until the device is recalibrated.
4. The device can be returned to Alcolizer for recalibration prior to the number of days warning message period expiring, to avoid the inability and inconvenience of performing further breath tests when required.

### Re-Calibration Return Addresses

**Alcolizer Technology - Brisbane**  
**P.O. Box 1856 Cleveland DC**  
**Queensland 4163**  
**Australia**

**Phone: 1300 789 908**  
**Email: [sales@alcolizer.com](mailto:sales@alcolizer.com)**  
**Web: [www.alcolizer.com](http://www.alcolizer.com)**

**Alcolizer Technology - Perth**  
**P.O. Box 73 Claremont**  
**WA 6910**  
**Australia**

**Phone: 1300 789 908**  
**Email: [sales@alcolizer.com](mailto:sales@alcolizer.com)**  
**Web: [www.alcolizer.com](http://www.alcolizer.com)**

## Warranty on Alcolizer HH3

1. The Alcolizer HH3 device is manufactured by Alcolizer Technology and is guaranteed to be free from defects in workmanship and material for a period of 24 months from the date of purchase.
2. Alcolizer Technology will repair or replace, at its option, any device which becomes defective within that period except when such defects result from obvious abuse, accidental damage or improper use.
3. Alcolizer HH3 devices serviced and repaired by Alcolizer Technology shall carry a sixty (60) day workmanship guarantee. When a defective part is replaced under warranty the new part shall be guaranteed for the duration of the original warranty or a period of sixty (60) days whichever is the greater.
4. The warranty by Alcolizer Technology is subject to the following conditions:-
  - a. Alcolizer reserves the right to determine whether the failure is or is not covered by warranty.
  - b. Alcolizer will not honour any obligations expressed or implied except as stated above.
  - c. Alcolizer shall not be held liable for any inconvenience, loss of use, or consequential damages resulting from the use of Alcolizer equipment.
  - d. Alcolizer will not warrant service carried out by any unauthorized agencies or unauthorized modifications by the user.
  - e. The purchaser is responsible for the cost of returning the instrument to Alcolizer for warranty or other servicing requirements.

If your HH3 requires service, send the device back to Alcolizer Technology with the details of the fault or contact your authorized distributor.

## Certifications

Alcolizer has the following trademarks and certifications for the Alcolizer HH3, that guarantees the customer a premium device.

This product is produced under an ISO 9001:2008 Quality Management System.



**Alcolizer**  
technology

1300 789 908

For more information on Alcolizer Products, please visit our website [www.alcolizer.com](http://www.alcolizer.com)

**Proudly designed and manufactured in Australia by Alcolizer**