

User Manual



Disclaimer – External Documents note to reader

The g/210L BrAC reading obtained by correct use of this device is only considered accurate at the time of testing. Great care has been taken to ensure the accuracy of each 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.



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1 Introduction

This User Manual details the operation of the Alcolizer HH4 Alcohol Tester. The manual is divided into various Sections and Sub-sections to enable the user to access the required information with ease. It includes Cautions and Notes applicable to the HH4

device and Specifications table.

Note

This User manual is applicable to the Alcolizer HH4 alcohol tester certified to AS3547:2019.

2 Description of HH4

2.1 Equipment Overview

The HH4 Equipment List includes the following items:

- HH4 Handheld Device (Li-ION powered)
- USB Cable
- Battery Chargers (240VAC and 12VDC Vehicle Charger)
- Wrist Strap
- Carry Bag or Hard Plastic Carry Case (Optional)
- Bluetooth Printer (Optional)

2.2 Device Overview

The HH4 is a handheld device consisting of a hard-plastic case, rubberised hand grip, wrist strap and the following user displays, buttons, and adaptor sockets. (Refer to Figure 1)

- Mouthpiece Locator and Sample Inlet Spigot
- LCD Colour Graphics Display
- Test Key
- Up and Down Buttons
- USB Port
- Wrist Strap, and
- Battery Charging Port (refer to Figure 2 Charging Port)







Figure 2 - Charging Port

2.2.1 Test Key

The Test Key activates selected functions.

2.2.2 LCD Colour Graphics Display

Displays the various functions of the device including:

- Welcome screen which included days remaining until the next calibration (If Activated)
- Various Test Modes (Mouthpiece, Passive Standard and Passive Only)
- Extensive menus and options
- Ready Notification
- Blow Notification including progress bar
- BrAC Level in various formats
- Printer Setup
- Records Information



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These and other displays are explained in the Operating Instructions Section of this manual.

2.2.3 Mouthpiece Locator and Sample Inlet Spigot

This disposable mouthpiece (sample tube) is located on the Mouthpiece Locator which surrounds the Sample Inlet Spigot.

2.2.4 Up and Down Buttons

The Up and Down buttons allow access to various sub menus. Operation of both buttons at the same time also facilitates access to the Off function (Refer to Section 3).

2.2.5 USB Port

The USB Port facilities connection of the device to a USB equipped computer using the cable included with the device. Refer to AlcoCONNECT Toolbox User Manual for instructions on using the AlcoCONNECT toolbox.

2.2.6 Battery Charger Port

The Battery Charging Port is located beneath a moisture proof cap under the wrist strap bracket and facilities connection to the battery chargers included with the device Operating Instructions

CAUTION

While the HH4 is a robust device, it does contain sensitive instrumentation and should not be subject to rough handling or become submerged in water.

Do not store the device in direct sunlight or places where extreme temperature conditions can occur.

Note

The HH4 has optional functions which may or may not be active on your device. The screen images shown in this User Manual may differ to your device depending on the options fitted or functions enabled.

2.3 General Information

The following information should be observed when conducting a breath test analysis using this device:

- Operators should use the appropriate personal protective equipment (PPE) when conducting a test gloves, mask, protective eyewear, or full-face mask based on the situation.
- For accurate testing results, food, beverages, medications, smoking, vaping, or substances that contain alcohol should not be consumed for at least 15 minutes prior to testing.
- Allow 15 minutes for any potential interfering alcohol to be cleared from the donor before testing again.
- Blood alcohol concentration can continue to rise for up to 2 hours after the cessation of drinking and care should be taken if a result close to the designated blood alcohol concentration is indicated.
- When a high blood alcohol level has been reached, it can take 10 hours or more for the blood alcohol level to return to zero.
- If the test result is above the operational maximum limit, a plus sign (+) after the result will be displayed.



2.3.1 Cleaning Requirements

- We recommend that appropriate PPE be used during the cleaning process e.g. gloves
- The instrument should be cleaned with a soft cloth and antibacterial spray or antibacterial wipes. It is recommended that the instrument is turned off before cleaning.
- The outside of the instrument can be cleaned by wiping it over with a soft moist cloth followed by a soft dry cloth.
- Screen the screen of the instrument can be cleaned by wiping it over with a soft moist cloth followed by a soft dry cloth.
- Ensure the Spigot Inlet is not blocked.
- **Do not** use alcohol-based cleaners.
- **Do not** use harsh cleaning agents, abrasive cleaning pads or chemicals.
- Dispose of mouthpieces after use into a bin, this can be done by easily 'tapping' the mouthpiece on the edge of the bin and it will 'pop' off. Ensure gloves and PPE are used during this process

2.4 Turning on the Device

Turn the device on as follows:

NOTE: At start up, a clicking sound will be heard. This is normal

 Press either the Test Key or Up/Down buttons. A company logo screen will appear for a period of five seconds prior to the test screen displaying. The logo screen can be terminated sooner by pressing either the Test Key or Up/Down buttons a second time.

Note

On specially configured devices, additional information may be displayed on start-up e.g. device serial number, sample module serial number and days until calibration required. To permanently display this information, hold the Test key down upon start up.

• The Display will show press to test (Refer to Figure 3).



Figure 3 - Press To Test Message



2.5 Charging the Battery

Prior to initial use, the HH4 battery should be fully charged. The battery charge cycle may take up to two hours.

CAUTION

The battery in the HH4 device is a Li-ION battery. As such it should not be tampered with in anyway. Should any problems occur that are related to the battery, contact your local Alcolizer representative for advice.

Only use the battery charger supplied with the Alcolizer certified equipment. Use of non Alcolizer battery chargers could damage the device and render it inoperative.

Charge the battery as follows:

- Connect the charger DC socket to the HH4 battery charging port (Refer to Figure 2)
- Connect the AC or DC (vehicle) plug to a suitable power supply and switch on power.

The device will automatically start, and *Charging* will be displayed.

When the battery is fully charged, the battery condition indicator on the LCD Colour Graphics Display will display five bars. (Refer to Figure 4 - Battery Condition Indicator)



Figure 4 - Battery Condition Indicator

Recharge the battery when the Battery Condition Indicator shows one bar to ensure testing will not be interrupted by a flat battery.

Note

The device cannot be used for testing during charging but can be used for accessing Records.



2.6 Testing Types

The HH4 can perform both Mouthpiece and Passive (Standard, Passive Standard and Passive Only) testing. Mouthpiece testing provides a BrAC reading in g/210L and Passive testing will display the presence of alcohol in breath. Following a Passive test that indicates the presence of alcohol, a Mouthpiece test should then be performed if an accurate BrAC is required.

Note Mouthpiece testing is also referred to as Standard or Active testing.

2.6.1 Mouthpieces

There are two types of Mouthpieces available for use on the HH4 (Refer Figure 5). Mouthpiece Types:

- Spit Trap Non-Return Valve Mouthpiece (2 variants), and
- Standard Spigot Locator Mouthpiece.



Figure 5 - Mouthpiece Types

The advantage of using the spit trap mouthpieces is that most of the saliva in the exhaled breath is collected in the mouthpiece and does not enter the device.

2.6.2 Mouthpiece Testing

CAUTION To maintain a healthy sampling environment, the following procedures must be strictly adhered to.

Attach the mouthpiece to the device as follows:

- Grasp the mouthpiece at the ribbed end and tear the plastic wrapping from the nonribbed end, downwards to expose the sample inlet hole.
- Locate the mouthpiece sample inlet port over the mouthpiece locator in line with the recess that surrounds the spigot (Refer to Figure 6).



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- Press the mouthpiece sample inlet port onto the locator until it is attached securely (Refer Figure 7). The orientation of the mouthpiece will not affect the sampling.
- Remove the remaining portion of the plastic wrap just prior to testing to ensure hygienic use.
- A new mouthpiece must be used for each mouthpiece test.



Figure 6 - Locating the Mouthpiece



Figure 7 - Mouthpiece Correctly Positioned

2.6.3 Taking a Mouthpiece (Active) Breath Sample

Note

Before taking a breath sample, ensure the subject has not consumed alcohol for at least 15 minutes.

If any step in a breath test sequence is not completed or the device is left idle for a prolonged period of time, the device will then terminate the breath test and display Test timed out. The device will return to the press to test display

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.

Perform a Mouthpiece Test as follows:

Press the Test key and the device will perform a self-test and *Please wait...* and a progress bar will be displayed.

Note If the self-check is unsuccessful an error code will be displayed, and the device will not accept a breath sample.

• *Blow* will be displayed when the device is ready (Refer to Figure 8).



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Figure 8 - Blow is displayed when the device is ready

After taking a deep breath, the test subject places their mouth over the mouthpiece inlet (ribbed end) and blows a gentle to medium breath sample into the mouthpiece (Refer Figure 9).



Figure 9 - Providing A Sample

• The exhaled flow is indicated via a bar graph; showing air flow over time in seconds (Refer to Figure 10). A beeping sound is also heard during the breath sample delivery phase, indicating a satisfactory breath sample is being delivered.



Figure 10 - Sample Process Bar



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- The test subject continues blowing until the device takes a sample of the exhaled breath volume, indicated by a click and long beep sound.
- 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 (Refer Figure 11). The device will return to the Blow screen, another sample can now be taken.



Figure 11 - Invalid Sample Try Again Message

2.6.4 Analysing a Mouthpiece Breath Sample

After a valid breath sample is taken, the *Analysing Sample* message is displayed until the device calculates the BrAC reading. This will normally take a few seconds. In cold climate conditions it may take longer to display the BrAC reading (Refer to Figure 12)



Figure 12 - Analysing Sample Message

When the BrAC reading is calculated, it will be displayed on the screen together with the unit of measurement (e.g. g/210L BrAC) and be retained until the Recovering period has ended. The screen colour will vary depending on the percentage of alcohol present; green for zero to 0.019 g/210L BrAC, yellow for 0.020 g/210L BrAC to 0.049 g/210L BrAC and red for readings greater than 0.050 g/210L BrAC. The *Recovering* period is indicated by Recovering shown on the display (Refer to Figure 13a)



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Figure 13a - Various BrAC and Screen Colours Displayed

- The Recovering period is the time the fuel cell sensor requires to recover from the previous breath test. This period will vary according to BrAC readings displayed, longer for higher readings.
- Remove the used mouthpiece by rotating it and it will come away from the spigot easily. Dispose of the mouthpieces in a responsible manner.
- To perform another breath test, repeat steps from section 3.4.2. Results will display on the screen for 10 seconds. A user is able to override this function by pressing key to continue as displayed on the screen.
- Overrange result is if a result above 0.462g/210L is obtained the below screen will appear (Figure 13b)



Figure 13b – Overrange Results

2.6.5 Passive Testing

Passive testing is a test that is performed without using a mouthpiece. The HH4 can perform two types of passive testing, that is trigged by button or blow pressure.

All Passive testing is performed by holding the device approximately 50mm 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.

When using Passive Standard testing, a Mouthpiece test is automatically enabled should the device detect alcohol on the subject's exhaled breath. Passive Only testing does not prompt the user to perform further testing.

2.6.6 Enabling Passive Standard

If passive standard mode has not been enabled, proceed as follows:

• With the screen displaying *press to test*, press the Up and Down buttons simultaneously. The User Menu will be displayed.



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• Press the down button to scroll down to *Test Type* (Refer to Figure 14).



• Press the Test key until *Passive Std* is displayed (Refer to Figure 15).



- Figure 15 Passive Standard Displayed
- Press the Up and Down buttons simultaneously or press the Down button until *Back* is highlighted then press the Test key to leave the User Menu. Passive Standard is now enabled.

2.6.7 Taking a Passive Standard Breath Sample

Note

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 device will return to the press passive test display. 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 the Test key to perform a new passive breath test as per steps above.

Perform a Passive Standard test as follows:

• On the *press test* screen, press the Test key. *Ready for passive test* is displayed (Refer to Figure 16)



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Figure 16 - Ready for Passive Test Message

- Press the Test button. The device will perform an electronic auto check and then return to *Ready for passive Test*.
- Hold the device 50mm in front of the test subjects mouth: so that the subject is breathing or talking directly into the device's sample inlet port (Refer to Figure 17).



Figure 17 - Providing a Passive Sample

- Ask the Subject to start counting from 20 onwards with a one second rhythm, until you tell them to stop, "20...21...22...23...24...25...etc."
- Press the Test button while the subject is counting. The device will make a series of clicking sounds as the sample is being taken,
- The device is set to take three pump samples. During these three pumps the operator must hold the device steady and at the same distance from the subject. The device will give three sample pump clicks, followed by a long beep sound. Analysing Sample will then be displayed (Refer to Figure 18).



Figure 18 - Analysing Sample Message



2.6.8 Analysing a Passive Breath Sample

- After a valid breath sample is taken, the Analysing Sample message is displayed until the device determines if alcohol is present. This will normally take a few seconds. In cold climate conditions it may take longer to display the result.
- When the Passive standard 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 the Recovering period has ended the device is ready for the next Passive standard breath test (Refer to Figure 19).



Figure 19 - Pass No Alcohol Message

- To perform another Passive Standard breath test, repeat these steps again.
- 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 (Refer to Figure 20).



Figure 20 - Warning Alcohol Present Message

After the recovery period has ended, the device is enabled automatically to take an • Active (Mouthpiece) sample (Refer to Figure 21). Perform an Active test in accordance with the procedures in section 3.4.2.



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Figure 21 - Warning Alcohol Present/ Press for Active Test Display

2.6.9 Enabling Passive Only

To enable Passive Only, perform the same steps as in paragraph 3.4.6. Press the Test key until *Passive Only* is displayed.

Note

A Passive Only test will not automatically enable an Active (Mouthpiece) test the same way a Passive Standard test does.

2.6.10 Taking a Passive Only Breath Sample

The procedures for performing a Passive Only test are the same as those for performing a Passive Standard test (refer paragraph 2.6.7).

Note

When a Warning Alcohol Present reading is displayed after performing a Passive Only test, it is strongly recommended that a Mouthpiece Breath Test be performed, after the recovery period has ended.

2.6.11 Pressure Activated Passive- Blow Testing

The Pressure Activated Passive testing is used when it is desired that the subject's blow starts a sampling.

2.6.12 Enabling Pressure Activated

To enable the pressure activated, access the device setup menu (refer to section 0)

Note

Pressure Activated or Passive Blow testing stands for the triggering method used on Passive testings.

Enable the pressure activated as follows:

• Press the Down button until *Test Options* is highlighted (Refer to Figure 22).



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- Press the Test key. The screen will display the Test Options.
- Using the down button, scroll down to *Passive Trigger* (Refer to Figure 23).



• Press Test key to select *Blow or Button/Blow*.

Then go down to Back and Back again

Note

Blow Only Passive Trigger set the Passive Standard and Passive Only to take a sample only when a difference in pressure is detected on device's spigot locator.

Button/Blow Passive Trigger set both Passive testing to take a sample by pressing the test button or when a difference in pressure is detected.



2.7 Back Operation

The user menu includes a Back selection which when selected will return to the previous screen. To select Back, proceed as follows:

• Press the Up/down buttons until **4 Back** is highlighted (Refer to Figure 24).

05/06/2018 12:58•🛟 🛄
 Back
User Menu
Area Code
Test Type
Print Last
Print Record
Records
About
Off
Back
Figure 24 - Screen Back Selection

• Press the Test key and the display will return to the previous screen.

2.8 Shutting Down

The HH4 will automatically shut down after a period of inactivity. Should the device be required to be shut down manually (e.g. to conserve battery life), perform the following procedures:

- With the screen displaying press to test, Press the Up and Down buttons simultaneously. The User Menu will be displayed (Refer to Figure 13).
- Using the down button, scroll down to Off. (Refer to Figure 25).



Figure 25 - Off Displayed

• Press the Test Key and the device will turn off.

To further conserve battery life, the device will automatically switch off the display back light after two minutes. To re-activate the device following back light power down, Press the Test key or Up/down buttons. The device will display the last screen that was activated at the time the back light switched off.



3 Test Options Menu n

3.1 Test Cancel

If the user wishes to cancel a test, perform the following steps:

• With the Blow screen displayed, Press the Up and Down buttons simultaneously. The *Test Options Menu* will be displayed and using the down arrow to *Test Cancel* is selected (Refer to Figure 26).

05/06/2018 13:06+🛟 🛄
Blow
4
50-
/ min
Test Options Menu
Test Cancel
Test Refuse
Dauk

Figure 26 - Test Options Menu and Test Cancel

• Press the Test key and the screen will return to the press to test display.

3.2 Test Refusal

If a test is refused, the user can activate the Test Refuse option as follows:

- With the Blow screen displayed, press the Up and Down buttons simultaneously. The *Test Options Menu* and *Test Cancel* is displayed (Refer to Figure 26).
- Press the Down button to highlight *Test Refuse* (Refer to Figure 27).

	05/06/2018 13:12 🚓 🎹
	Blow
	-
	50- (= -
	Test Options Menu
	Test Cancel
\triangleleft	Test Refuse >
	Back

Figure 27 - Test Refuse Displayed

• Press the *Test key*. The device will beep rapidly for one second and *Test Refused* will be displayed flashing momentarily (Refer to Figure 28). The screen will then return to *the press to test* display. The test refusal will be recorded in Records.



Figure 28 - Test Refused Displayed





4 Setup Menu

To access the setup menu, perform the following procedures:

- Switch the HH4 device on (refer to paragraph 2.8).
- With the screen displaying *press to test*, Press the Up and Down buttons simultaneously for approximately five seconds. The menu screen will be displayed during this process and then the password set-up code '00000000' will be displayed (Refer to Figure 29).



Figure 29 - Password Set-up Code

- Press the Test key until the cursor is under the fifth '0'.
- Press the Up button until that number is '5' (Refer to Figure 30).



Figure 30 - Password Set Up Code 00005000

• Press the Test Key until the Setup Menu is displayed (Refer to Figure 31).

05/06/2018 15:19•र्द्भ 🛄
Date & Time ►
Setup Menu
Date & Time 🕨
Test Prompts 🕨
Test Options >
User Menu Setup >
Peading Ontions
Timeouts
V
Figure 31 - Setup Menu

4.1 Date & Time

- The Date & Time on the LE5 can be adjusted to match your local requirements.
- In the Setup Menu use the Up and Down buttons to highlight Date & Time, press the Test Key to access.



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- In the Date & Time menu use the Up and Down buttons to highlight Set Time and press the Test Key to access.
- The hour setting will be highlighted, use the up and down arrow keys to adjust the hour to your requirements, press the Test Key to accept and move to the minute's adjustment. Use the up and down buttons to adjust to your requirements, press the Test Key to accept.
- Repeat for the seconds then press the Test Key to accept.
- Use the up and down buttons to highlight back and press the test key to select, this will return to the Date & Time menu.
- In the Date & Time menu use the Up and Down buttons to highlight Set Date and press the Test Key to access.
- The year setting will be highlighted, use the up and down arrow keys to adjust the year to your requirements, press the Test Key to accept and move to the month adjustment. Use the up and down buttons to adjust to your requirements, press the Test Key to accept.
- Repeat for the day then press the Test Key to accept.



5 Printing Function

The printing function (if installed) enables the printing of records by connecting the HH4 to a portable printer via Bluetooth connection.

The device supports the following printers:

- SPRT SP-T7
- Confucian 200-BU
- Custom MYPrinter
- POS-5802DD

Note

For information on operating the printer, refer to the appropriate printer User Manual.

5.1 Accessing Bluetooth

To establish the connection with the printer via Bluetooth, access the device set up menu (Refer to Section 0).

5.2 Enabling Bluetooth

Establish Bluetooth connectivity as follows:

• Press the Down button until *Bluetooth Comms* is highlighted (Refer to Figure 32).



• Select the test key to Enable Bluetooth (Refer to Figure 33).



Figure 33 - Enable Bluetooth



5.3 Bluetooth Printer PIN

A Bluetooth Printer is required to proceed, to set the PIN proceed as follows:

• Press the down button once and use the test key to select Printer (Refer to Figure 34).



• Use the down arrow and test key to select Edit PIN (Refer to Figure 35).

30/12/2021 09:∦ •< ← (■■ 0000
Printer 🕨
Pairing 🕨
Forget this device
Edit PIN
Auto Print Standard
Auto Print Passive
Printer Driver
Ticket Format Type
A Back
Figure 35 - Edit PIN

• Refer to the below table for the printer PIN length and number

		0	
Standard Printers	PIN Digit Length	PINs	Communication Range
Bixolon SPP-R200	4	0000	
SPRT SP-T7	4	1234	Lin to 10 metros
POS-5802DD	4	1234	op to to metres
Confucian 200-BU	4	0000	

- Using the Up/down buttons, select the PIN length that applies to the printer, e.g. for the Bixolon SPP-R200, select 4.
- Use the Up or Down buttons to display the first number of the PIN, e.g. 0.
- Press the Test key to advance to the next number.



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30/12/2021 09:₿ •<∓ 0000
Printer 🕨
Pairing Forget this device
Edit PIN
Auto Print Standard
Auto Print Passive
Printer Driver
Ticket Format Type
Back
Figure 36 - PINs Entered

5.4 Pairing the Printer

To Pair the device to the nominated printer, proceed as follows:

• Select the up button once and use the test key to select Pairing (Refer to Figure 37).

30/ 12/2021 09: 🖇 🗲 🎟
No de∨ice paired.
Printer 🕨
Pairing ►
Forget this device
Edit PIN
Auto Print Standard
Auto Print Passive
Ticket Format Type
 Back
Figure 37 - Pairing Selected

• Place the HH4 device next to the Bluetooth printer and switch the printer on. Press the test key and he HH4 will search for the printer and display *Searching...* (Refer to Figure 38).



Figure 38 - Searching Displayed



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NOTE

The HH4 will search and display all Bluetooth devices in range. To avoid attempting to connect to a device other than the intended printer, move other Bluetooth items away.

When the HH4 identifies the printer, the printer type will be displayed, e.g. "SPP-R200" (Refer to Figure 39).



Press the test key to accept the selected printer, the device will then show Pairing... then Paired



Figure 41 - Printer Paired



5.5 Printer Driver

5.5.1 Installing the Printer Driver

To install the printer driver, proceed as follows:

- Access the Printer Menu as described in paragraphs 0
- Press the Down button and scroll down to *Printer Driver* (Refer to Figure 42).

30/ 12/2021 09:₿ •<↔ Bixolon SPP-R200
Printer Driver
Printer 🕨
Pairing 🕨
Forget this device
EOII PIN Auto Print Standard
Auto Print Passive
Printer Driver
Ticket Format Type
< Back

Figure 42 - Printer Driver Selected

- Press the test key to select
- Press the down button and scroll down to the printer brand and type, e.g. Bixolon SPP-R200 and press the test key to select (Refer to Figure 43).

30/ 12/2021 09: 🖇 🗲 🎟
Printer Driver Selection
Bixolon SPP-R200
Confucian 200-BU
POS-5802DD Rongta T10 BT
A Back
Figure 43 - Printer Selected

• When Bluetooth is enabled, a Bluetooth icon is visible on the screen at all times (Refer to Figure 44).



Figure 44 - Bluetooth Icon on Screen



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• During printing (and sending) a connection is established, and the Bluetooth icon will change from grey to blue indicating the link is active. After printing is completed, the icon will return to grey indicating the link is inactive again. **Bluetooth is active only when required.**



5.6 Auto Print

The Auto Print functions allow the automatic printing of results via a Bluetooth connection to a paired printer.

NOTE

To ensure the correct operation of the Auto Print function, Auto Send Standard and Auto Send Passive must be set to **None**!

5.6.1 Auto Print Standard

Auto Print Standard applies only to Mouthpiece (Active) testing. Depending on the Auto Print Standard option selected, the following information will be printed following tests:

- Positive if alcohol is detected: a complete report including device serial number, record no, date, time, result etc will be printed.
- All regardless of results: a complete report including the device serial number, record no, date, time, result etc will be printed.
- None regardless of results: nothing transmitted.

To set the HH4 to Auto Print Standard, scroll down until *Auto Print Standard* is highlighted. Positive is the default option. To select *All or None*, press the Test key until the desired option is highlighted.





5.6.2 Auto Print Passive

Auto Print Passive applies only to *Passive testing*. Depending on the Auto Print Passive option selected, the information may be printed following the various tests except *None*. The result will be either *false* if no alcohol is detected or *true* if alcohol is detected per the following explanations:

- Positive if alcohol is detected: A short report including the device serial number, record number, date, time and a pass/fail result.
- All if alcohol is either detected or not: A short report including the device serial number, record number, date, time and a pass/fail result.
- None regardless of results: nothing transmitted.

To set the HH4 to Auto Send Passive, scroll down until *Auto Print Passive* is highlighted in a similar manner to *Auto Send Passive*. Positive is the default option. To select *All or None*, press the Test key until the desired option is highlighted.



5.7 Ticket Format Type

- Ticket Format Type 0- Default Format, Standard English
- Ticket Format Type 1- Vietnamese Format 1
- Ticket Format Type 2- Vietnamese Format 2
- Ticket Format Type 3- Extended English ticket format with main and sample module serial numbers
- Ticket Format Type 4- Chinese Format
- Ticket Format Type 5- Taiwan (Specific Alterations)
- Ticket Format Type 6- Taiwan (Specific Alterations)

6 Sending Data (Serial)

6.1 Accessing Bluetooth

To establish the connection with the printer via Bluetooth, access the device set up menu (Refer to Section 0).

6.2 Enabling Bluetooth

Refer to Section 5.2

6.3 Bluetooth Printer PIN

A serial PIN number is required to paring device to a computer or other device. If a PIN is not setup, device will use as default '0000'.



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• Use the down arrow and test key to select Edit PIN.



6.4 Pairing as Serial Device

To Pair the device to a computer as serial device proceed as follows:

- Setup an incoming Bluetooth COM port.
- Ensure application on computer is running this incoming Bluetooth COM port.
- Go to Bluetooth device option on computer and select 'Add Bluetooth'.
- Select 'Pairing' on HH4 to search for Bluetooth devices (Refer to Figure 47).



Figure 47 - Pairing Selected

NOTE

The HH4 will search and display all Bluetooth devices in range. To avoid attempting to connect to a device other than the intended printer, move other Bluetooth items away.

• Select the Bluetooth device which HH4 require to be paired (Refer to Figure 48).



Figure 48 – Bluetooth Devices



Press the test key to pair HH4 with device. Unit will display a PIN number sent by the • computer in this case.



Follow instruction on computer screen to confirm PIN so pairing is completed. •

Pair Device	×	
Pair device?		
"your device" would like to pair to this V this?	Vindows device. Do you want to allow	
Allow	Cancel	
Figure 50 - Pairing Confirmation		

Select 'Yes' to pair if PIN match with displayed on HH4 screen. Then, HH4 will be • paired with computer.





6.5 Pairing to OnSite Testing Mobile App

6.5.1 iOS

To pair the HH4 to the Alcolizer OnSite Testing iOS app, proceed as follows:

Select 'Pairing' on HH4 to search for Bluetooth devices •



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• From the OnSite Testing App, navigate to Settings >> Pairing

NOTE The iOS device will not show up on the HH4. Pairing must be done from the iOS device. Pairing must also be done through the OnSite Testing app, not the iOS device's Bluetooth settings

• When prompted on the iOS device, enter the code shown on the screen of the HH4



NOTE

To unpair the HH4 to the iOS device, you must Forget the device from both the OnSite Testing app and the iOS device's Bluetooth settings.

6.5.2 Android

To pair the HH4 to the Alcolizer OnSite Testing iOS app, proceed as follows:

• Select 'Pairing' on HH4 to search for Bluetooth devices



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• From your android device, open the Bluetooth settings and pair to the HH4 as you would any other Bluetooth accessory.

6.6 Auto Send

NOTE

To ensure the correct operation of the Auto Send function, Auto Print Standard and Auto Print Passive must be set to **None**!

The Auto Send functions allow the automatic sending of results via a Bluetooth connection to a paired device (laptop computer, PC) in a serial data format. The data can be read/received by a serial terminal application e.g. Putty.

There are two Auto Send modes and each of these has three options. These are Auto Send Standard and Auto Send Passive. Both have the following options:

- Positive sends positive results after test is completed.
- All sends positive and zero results after test is completed.
- None regardless of results: nothing transmitted.

6.6.1 Auto Send Standard

Auto Send Standard applies only to Mouthpiece (Active) testing. Depending on the Auto Send Standard option selected, the following information will be transmitted following tests:

- Positive if alcohol is detected: a complete report including time, location, test type, result etc will be transmitted.
- All regardless of results: a complete report including time, location, test type, result etc will be transmitted.
- None regardless of results: nothing transmitted.

To set the HH4 to Auto Send Standard, scroll down until *Auto Send Standard* is highlighted. Positive is the default option. To select *All or None*, press the Test key until the desired option is highlighted.



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30/ 12/ 202 1 09: 🖇 🗲 🎹	30/ 12/ 202 1 09: 🖇 🗲 💷	30/12/2021 09:🖇 🗲
Positive	All Auto Send Standard	None
Serial >	Serial >	Serial >
Pairing ► Forget this device Edit PIN	Pairing ► Forget this device Edit PIN	Pairing ► Forget this device Edit PIN
Auto Send Standard Auto Send Passive	Auto Send Standard Auto Send Passive	Auto Send Standard Auto Send Passive

6.6.2 Auto Send Passive

Auto Send Passive applies only to *Passive testing*. Depending on the Auto Send Passive option selected, the information may be transmitted following the various tests except *None*. The result will be either *false* if no alcohol is detected or *true* if alcohol is detected as per the following explanations:

- Positive if alcohol is detected: A short report including time, device information, test type, etc will be transmitted.
- All if alcohol is either detected or not: a short report including time, device information, test type, etc will be transmitted.
- None regardless of results: nothing transmitted.

To set the HH4 to Auto Send Passive, scroll down until Auto Send Passive is highlighted. *Positive* is the default option. To select All or None, press the Test key until the desired option is highlighted.



30/12/2021 09: 🖏 🕶 🕁 🛄	ш
All	
Auto Send Passive	
Serial 🕨	
Pairing ► Forget this device Edit PIN Auto Send Standard	
Auto Send Passive	
Back	





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6.7 Keep Previous

The Keep Previous function will display the last test record in the top of the screen in the Press to Test screen.

• From the Setup Menu, arrow down to 'Keep Previous'. Pressing the Test Key will change the setting from No to Yes.



• Arrow Up or Down to 'Back' to Return to the User Menu



Use the Test Key to select Yes or No. If Yes is selected in the Keep Previous function the HH4 will display the last test record in the top of the screen.



7 Area Code

Area codes are used to identify the location of a breath test. To set an area code, perform the following procedures:

- With the screen displaying *press to test*, press the Up and Down buttons simultaneously. The User Menu will be displayed.
- Press the Down button and scroll to Area Code



Figure 53 - Area Code Displayed

Press the Test key. The cursor will move below the first digit.

Use the Up/down buttons to advance the digit to the required number.

When the correct number is displayed, press the Test key. The number will be set, and the cursor will move the next digit. Repeat steps if necessary to all required numbers are displayed.



Figure 54 - Area Code Set

The Area Code is now set.

Press the Down button until **4 Back** is displayed. Press the Test Key to return to the *press to test* screen.



8 Records

8.1 Accessing Records

Records are retained in the instrument and can be downloaded via AlcoCONNECT Toolbox (Refer to AlcoCONNECT Toolbox User Manual). It is recommended that records are periodically downloaded and erased from the device. Access the records as follows:

- Switch the device on
- With the screen displaying *press to test*, press the Up and Down buttons simultaneously, the User Menu will be displayed.
- Using the down button, scroll down to *Records* (Refer to Figure 55 Records Figure 55).



Press Test key to activate the records.

Press the Up/down buttons to navigate through records as required.

Press the Up and Down buttons simultaneously to return to the User Menu.

8.2 Clearing Records

As the device automatically stores records, the memory will eventually reach capacity and unless the data is downloaded, the storage of records will cease.

The device provides a series of warnings regarding memory capacity including memory reaching capacity, memory full and days since the memory has been full.

20/09/2014 15:12 • Common Section 15:12 • Com	20/09/2014 15:25 • Common Second memory full. Download records for continued testing	20/08/2014 15:06 Control 15:06
		press to test

Figure 56 - Memory Capacity Warnings



9 Calibration

9.1 Calibration Alerts

The Alcolizer HH4 requires calibration every twelve months as per Australian Standards Certification Requirement.

The device will display a warning message after switching on if 14 days or less remain before calibration is required (Refer to Figure 57).



Figure 57 - Days to Calibration Displayed

To cancel the warning message, press the test key and the device will resume normal operations until zero days to calibration is reached.

When the calibration warning message period has expired, the Calibration Due Now screen is displayed, the device is locked and preventing any further breath tests until the device is calibrated (Refer to Figure 58).



CAUTION

It is recommended that calibration of the device is performed before the warning message period expires. This will ensure uninterrupted testing can continue.

9.2 Calibration Process

The Alcolizer HH4 calibration can be quickly and conveniently booked online at <u>www.alcolizer.com</u>



The Serial Number of the instrument, your Purchase Order number if you have an account with us, or credit card details will be required. Then post your Alcolizer HH4 to our Service Centres in Cleveland or Perth.

- Unit 9/ 132-140 Ross Court, Cleveland QLD 4163
- 36 Mumford Place, Balcatta WA 6021

10 Specifications

The technical specifications of the HH4 are detailed below,

Instrument Application	Industry – Mouthpiece and Passive
BrAC Range	0.000 - 0.462 g/210L (BrAC)
Accuracy	Better than 0.005 at 0.100 g/210L (BrAC)
Test Time	Within 3-5 seconds at 0.100% BrAC
Recovery Time	Instant for 0.000 BrAC reading (reading on-screen for 10 seconds)
Operating Temperature	-5°C to +55°C
Operating Humidity	30% to 93% RH
Storage Temperature	-10°C to +70°C
Minimum Air Flow Rate	10L/min
Mouthpiece Type	Standard spigot locator or non-return valve
Sensor Type	Law enforcement grade electrochemical fuel cell (premium platinum)
Power Supply	Rechargeable Li-Ion battery system
Weight	272g (Including battery and cover)
Dimensions	202mm H x 63mm W x 39mm D
Calibration	Twelve monthly calibrations at Alcolizer Technology's service facilities

Figure 59 - Setup Successful



11 About Screen

- 1. To access the about screen, navigate to user menu. Select About.
- 2. The below screen will appear



Figure 60 – About Screen Display

3. Press the key button and the device information will appear as displayed below.

21/07/2020 11:57
LE5 Main Module Model:S5MLBG X20 Serial Number:01201456 FW Ver:S5-1.54.0
LE5 Sample Module Model:ASM2 (Ge) X02 Serial Number:00000022 FW Ver:2.04
Days to Recal 179 Days

12 Splash Screen Display

This feature will allow the splash screen to be held on the screen at startup. The splash screen hold time can be configured by setting configuration item "Splash Screen Timeout".

- 1. Power on the device and set configuration item "Splash Screen Timeout" to 2. (i.e. 2 seconds)
- 2. Power off the device.
- 3. Press and release the test key to turn on the device.
- 4. Observe that the splash screen is retained on the screen for a duration of 2 seconds