Document Type – User Manual

Disclaimer – External Documents note to reader

The g/210L BrAC reading obtained by correct use of this instrument 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 instrument, whether used correctly or incorrectly.

Contents

1 Introduction

This User Manual details the operation of the Alcolizer LE5 alcohol breath testing instrument.

Note

This User manual is applicable to the Alcolizer LE5 alcohol tester certified to AS3547:2019.

2 Description of LE5

2.1 Equipment Overview

The LE5 Equipment List includes the following items:

- LE5 Handheld instrument Li-ION powered
- USB cable
- Battery Charger, vehicle 12/24VDC
- Battery Charger, mains
- Silicon protective cover and wrist strap
- Carry bag or protective hard case (optional)
- Bluetooth printer (optional).

2.2 Instrument Overview

The LE5 is a handheld instrument consisting of a hard-plastic outer case, silicon cover, wrist strap and the following user displays, buttons, and adaptor sockets (refer Figure 1):

a) Test Key
b) LCD Colour Graphics Display
c) Mouthpiece Locator and Sample Inlet Spigot
d) Up and Down Buttons
e) USB Port

Figure 1 User Display, Buttons and Adapter Sockets

Figure 2 Charging Port

2.2.1 LCD Colour Graphics Display

Displays the various functions of the instrument including:

- Welcome screen which includes days remaining until next calibration
- Various test modes (Mouthpiece, Passive Standard, and Passive Only)
- Extensive menus and options
- Ready notification
- Blow notification including progress bar
- BrAC levels in various formats
- GPS acquisition data
- Printer setup
- Records information

These and other displays are explained in the Operating Instructions section.

2.2.2 Mouthpiece Locator and Sample Inlet Spigot

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

2.2.3 Up and Down Buttons

The Up and Down buttons allow navigation through menus. Operation of both buttons also facilitates access to the Off function (refer Section 3).

2.2.4 USB Port

The USB port facilitates connection instrument to a USB equipped computer using the cable included with the instrument. Charging through the USB port is available on instrument with hardware version X20. Refer to AlcoCONNECT Toolbox User Manual for instructions on using the USB port with AlcoCONNECT Toolbox.

2.2.5 Battery Charger Port

The Battery Charging Port is located under the wrist strap bracket and facilitates connection to the battery chargers included with the instrument.

3 Operating Instructions

CAUTION

While the LE5 is a robust instrument, it does contain sensitive instrumentation and should not be subject to rough handling or become submerged in water.
Do not store the instrument in direct sunlight or places where extreme temperature conditions can occur.

NOTE

The LE5 has optional features which may or may not be active on your instrument. The screen images shown in the User Manual may differ to your instrument depending on the features enabled.

3.1 General Information

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

- 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.

3.1.1 Cleaning requirements

- The instrument should be cleaned with a soft cloth and antibacterial spray or anti-bacterial 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.
- Rubber gloves should be used during cleaning of the instrument.

3.2 Testing Types

The LE5 can perform both Mouthpiece and Passive testing:

- Standard – Mouthpiece test
- Passive Standard – If alcohol is present, the instrument will require a Mouthpiece test
- Passive Only – The instrument will not automatically require a Mouthpiece test following an alcohol present passive test

Mouthpiece testing provides a BrAC reading in g/210L (or other measuring units as required). Passive testing will display the presence of alcohol in breath. If a Passive test indicates the presence of alcohol, a Mouthpiece test should be performed if an accurate BrAC is required.

NOTE
Mouthpiece testing is also referred to as Standard or Active Testing.

3.3 Mouthpieces

There are two types of Mouthpieces available for use on the LE5, these are the:

- Spit Trap Non-Return Valve Mouthpiece (SKU 430435) *
- Standard Spigot Locator Mouthpiece (SKU 430405).

NOTE: *USA only has one mouthpiece available for use SKU 430435

Figure 3 Mouthpiece Types

The spit trap non return valve mouthpieces is a more hygienic option with most of the saliva in the exhaled breath collected preventing spittle exiting the mouthpiece.

3.4 Charging the Battery

Prior to initial use, the LE5 battery should be fully charged. The battery charge cycle may take up to three hours.

CAUTION

The battery in the LE5 instrument 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 equipment. Use of non Alcolizer battery chargers could damage the instrument and render it inoperative.

Charge the battery as follows:

- Connect the charger DC socket to the LE5 battery charging port (Refer Figure 2)
- Connect the AC or DC (vehicle) plug to a suitable power supply and switch on power, or connect the USB (PC) or USB (Wall Plug)

Charging times:

Charger Type	Charge Time in hours (from depleted to full battery)
USB (PC)	6 – 7 hours
USB (Wall Plug)	6 – 7 hours
Mains DC Adaptor (12V)	2.5 – 3 hours

The instrument 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 Figure 4).

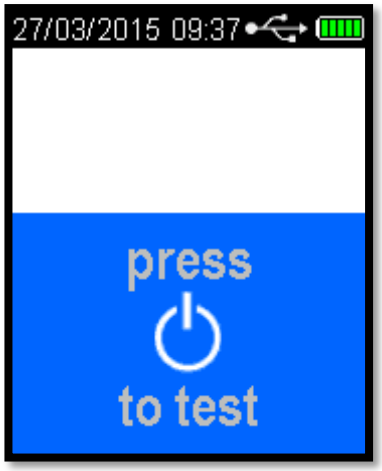

Figure 4 Battery Condition Indicator

Recharge the battery when the battery condition indicator shows one bar to ensure testing will not be interrupted by a depleted battery.

NOTE

The instrument cannot be used for testing during charging but can be used for accessing Records (Refer Section 8).

3.5 Turning on the Instrument

Turn the instrument on as follows:

NOTE: At each start up a soft clicking sound should be heard, this is normal and is the internal pumps self-test at start up:

- 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.
- The display will show press to test (Refer Figure 5).

NOTE

On specially configured instruments, additional information may be displayed on start-up e.g., Instrument serial number, Sample module serial number and days until calibration. To temporarily hold the display information on the screen at start-up, press and hold any key when turning the instrument on.

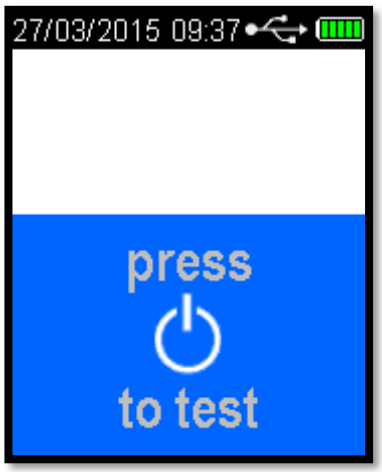

Figure 5 Press to test message

3.5.1 Mouthpiece Testing

CAUTION

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

Attach the mouthpiece to the instrument as follows:

1. Grasp the mouthpiece at the non-ribbed end and tear the plastic wrapping from the ribbed end, downwards to expose the sample inlet hole.
2. Locate the mouthpiece sample inlet port over the mouthpiece locator in line with the recesses that surround the spigot.
3. Press the mouthpiece sample inlet port onto the locator until it is attached securely (Refer Figure 6). The orientation of the mouthpiece will not affect the sampling.
4. Remove the remaining portion of the plastic wrap just prior to testing to ensure hygienic use.
5. A new mouthpiece must be used for each mouthpiece test.

Figure 6 Mouthpiece Correctly Positioned

3.5.2 Taking a Mouthpiece 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 instrument is left idle for longer than 60 seconds, the instrument will terminate the breath test and display test timed out. The instrument will return to the press to test display.

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, the instrument will perform a background self-test while

Please wait…

is displayed on the screen.

Note

If the self-check is unsuccessful an error code will be displayed, the instrument will not accept a breath sample. Contact an Alcolizer representative if an error code is displayed. If error code 81 is present: follow onscreen prompt to restart the device.

- BLOW will be displayed when the instrument is ready (Refer Figure 7).

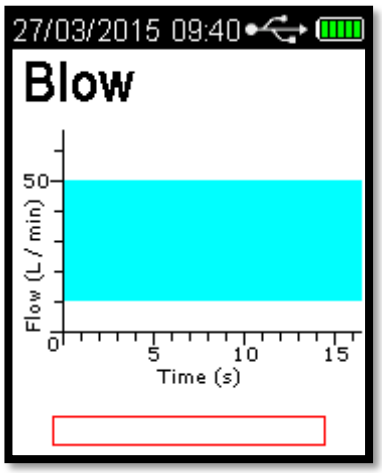

Figure 7 Blow is displayed when the instrument is ready

- 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 8).

Figure 8 Providing a Sample

- The exhaled breath volume is indicated via a sample progress bar; scrolling left to right at the bottom of the screen and a graph showing air flow over time in seconds (Refer Figure 9).
- A beeping sound is also heard during the breath sample delivery phase, indicating a satisfactory breath sample is being delivered.

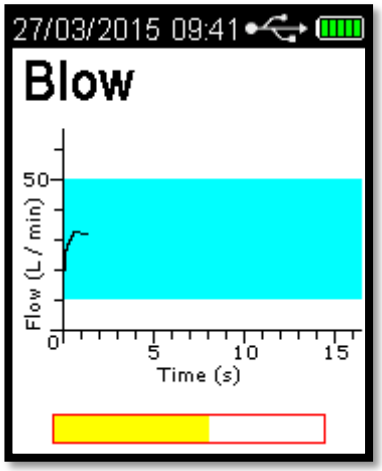

Figure 9 Sample Progress Bar

- The test subject continues blowing until the instrument 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 10). The device will return to the Blow screen for another sample to be taken.

Figure 10 Invalid Sample Try Again Message

3.5.3 Analysing a Mouthpiece Breath Sample

After a valid breath sample is taken, the Analysing Sample message is displayed until the instrument 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 Figure 11).

When the BrAC reading is calculated, it will be displayed on the screen together with the unit of measurement (e.g., g/210L BrAC, g/100ml BAC) and be retained until the recovering period has ended. The screen colour will vary depending on the percentage of alcohol present:

- Green for 0.000 g/210L BrAC
- Yellow for readings above zero to 0.049 g/210L BrAC
- Red for readings greater than 0.050 g/210L BrAC.

The Recovering period is indicated by 'Recovering' shown on the display (Refer Figure 12). Refer to Section 9 for instructions on how to change the Setpoint values.

Figure 11 Various BrAC and Screen Colour 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, with the recovery time typically being 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 3.5.1 and 3.5.2. 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 12)

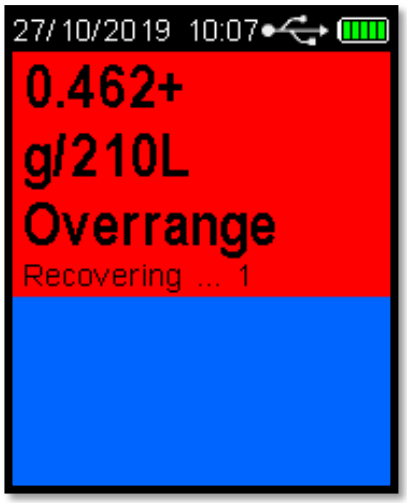

Figure 12 Overrange screen display

3.5.4 Passive Testing

Passive testing is a test that is performed in a non-invasive manner and without using mouthpieces. Passive testing on the LE5 can activated in one of two ways, either button activated by the operator or pressure activated by the donor blowing.

A passive test by button activation is performed by holding the instrument 5 cm in front of the test subject's mouth, Press the Test Key and ask them to count or talk so that exhaled breath may be picked up by the instrument and analysed for the presence of any alcohol.

Pressure Activated Passive is performed by holding the instrument approximately 5cm in front of the test subject mouth and asking them to blow into the Passive Cup. The pressure of the blow activates a passive test.

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

From firmware version S5-1.60.0 GPS data is also available with Passive testing.

3.5.5 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.
- Press the down button to scroll down to Test Type.
- Press the Test key until Passive Std is displayed (Refer Figure 13).

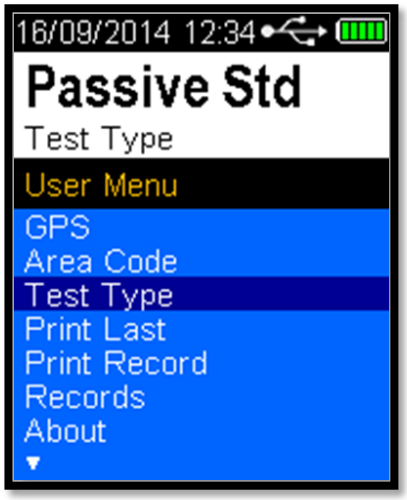

Figure 13 Passive Standard Displayed

- Passive Standard is now enabled. To leave the user menu, press the Up and Down buttons simultaneously or press the Down button until back is highlighted followed by the Test key.

3.5.6 Taking a Passive Standard Breath Sample

Note

If any step in a breath test sequence is not completed or the instrument is left idle for longer than 60 seconds, the instrument will terminate the breath test and display test timed out. The instrument will return to the press to test display.
If a test time out does occur during a breath test, a new breath test must be performed.

Perform a Passive Standard test as follows:

- On the press passive test page, press the Test Key. The instrument will perform a background self-test while

  Please wait….

  is displayed on the screen.
- The instrument will then display the Ready for passive test screen (Refer Figure 14).

Figure 14 Ready for Passive Test Message

- Hold the instrument no further than 5cmin front of the test subject's mouth; so that the subject is breathing or talking directly into the instrument's sample inlet port (Refer Figure 15).

Figure 15 Providing a Passive Sample

- Ask the subject to start counting from 20 onwards in 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 instrument will make a series of 3 clicking sounds (pump clicks) as the sample is being taken.
- The passive test will have 3 short beeps and clicks followed by a longer beep. Position the mouth 5cm away from the breath entry port. Blow steadily into the passive cup, listening until a long beep is heard indicating the breath collection is complete. Stop blowing. The instrument will take a short moment to analyse the sample followed by displaying the result.
- During these three pump activations, the operator must hold the instrument steady and at the same distance from the subject. After the three pump clicks, the instrument will sound a long beep indicating the test is complete. Analysing Sample will then be displayed (Refer Figure 15).

3.5.7 Analysing a Passive Breath Sample

After a valid breath sample is taken, the Analysing Sample message is displayed until the instrument 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 instrument has indicated that no alcohol was detected in the near vicinity of subject's exhaled breath. When the recovering period has ended the instrument is ready for the next Passive Standard Breath Test (Refer Figure 16).

Figure 16 Pass No Alcohol Message

To perform another Passive Standard breath test, repeat steps in paragraph 3.5.6.
If a Warning Alcohol Present reading is displayed, the instrument has indicated that alcohol was detected in the near vicinity of subject's exhaled breath (Refer Figure 17).

Figure 17 Warning Alcohol Present Message

After the recovery period has ended, the instrument is enabled automatically to take an Active Mouthpiece sample (Refer Figure 18). Perform an Active test in accordance with the procedures in section 3.5.1 and 3.5.2.

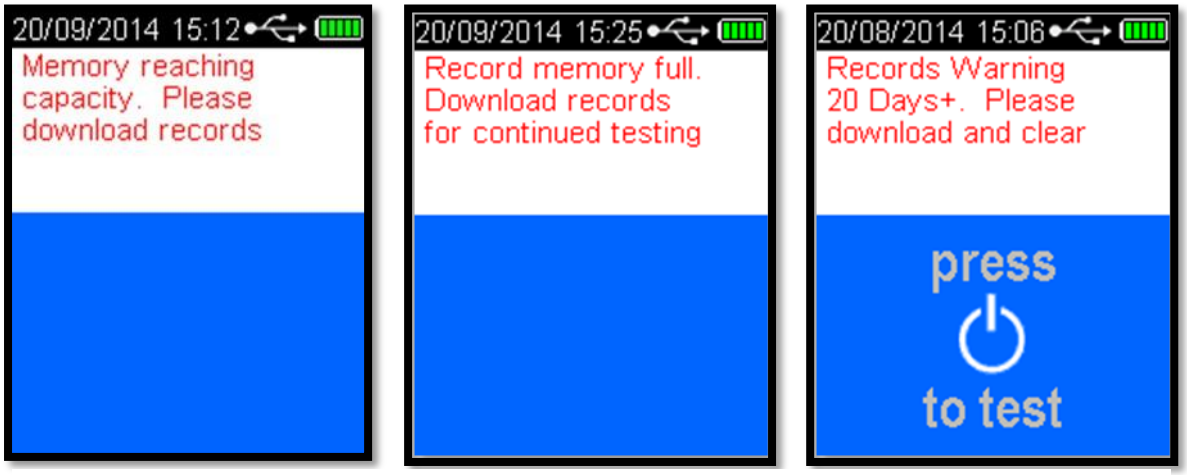

Figure 18 Memory Capacity Warnings

3.6 Enable Set Time

3.6.1 Enabling Passive Only

To enable Passive Only, perform the same steps as in section 3.5.5. 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.

3.6.2 Taking a Passive Only Breath Sample

The procedures for performing a Passive Only test is the same as those for performing a Passive Standard Test (Refer Section 3.5.6.).

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 (Refer Paragraph 3.5.6).

3.6.3 Pressure Activated Passive Breath Test

Note

If any step in a breath test sequence is not completed or the instrument is left idle for longer than 60 seconds, the instrument will terminate the breath test and display test timed out. The instrument will return to the press to test display.
If a test time out does occur during a breath test, a new breath test must be performed.

Perform a Pressure Activated Passive test as follows:

- Attach the supplied Red Passive Cup to the sample inlet port of the instrument (Refer Figure 19).
- On the Press Passive Test screen, press the Test Key. The instrument will perform a background self-test while
- *Please wait….*
- is displayed on the screen.
- The instrument will then display the Ready for passive test screen (Refer Figure 20).
- The screen will prompt to either Blow or Press the Test key to take the test. Pressure Activated Passive testing is using the Blow option.

Figure 19 LE5 with Passive Cup attached

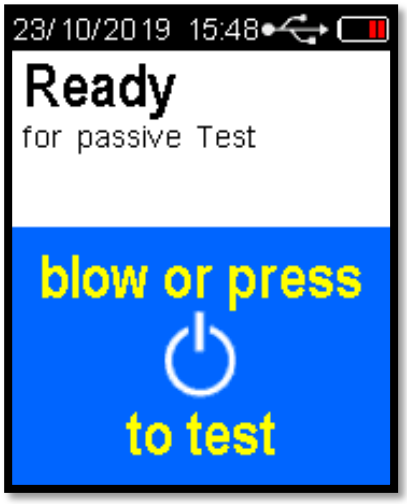

Figure 20 Ready for Passive Test Message

- Hold the instrument no further than 50mm front of the test subject's mouth; so that the subject is breathing directly into the instrument's sample inlet port (Refer Figure 21).

Figure 21 Providing a Passive Sample

- Blow firmly into the passive cup, listening until a long beep is heard indicating the breath collection is complete. Stop blowing.
- The passive test will have 3 short beeps and clicks followed by a longer beep.
- The instrument will take a short moment to analyse the sample followed by displaying the result.

- During these three pump activations, the operator must hold the instrument steady and at the same distance from the subject.

To remove the passive cup, pull the cup from the LE5 without bending the cup from the LE5 sample spigot.

Cleaning

1. The Passive Cup should be cleaned with a soft cloth and antibacterial spray. It is recommended that the instrument is turned off before cleaning.
2. Do not use alcohol-based cleaners.
3. Do not use harsh cleaning agents, abrasive cleaning pads or chemicals.
4. Rubber cloves should be used during cleaning of the instrument.

Cleaning Frequency

- The Passive Cup should be cleaned daily or as required based on the volume of testing and local conditions.

3.7 Back Operation

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

- Press the Up/ Down buttons until <Back is highlighted.

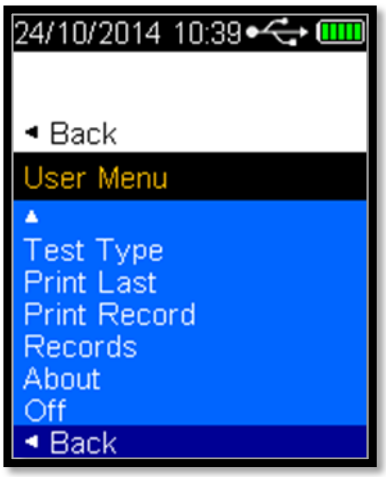

Figure 22 Screen Back Selection

- Press the Test key, the display will return to the previous screen.

3.8 Shutting Down

The LE5 will automatically shut down after a period of inactivity. Should the instrument 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.
- Using the down button, scroll down to off (Refer Figure 23).

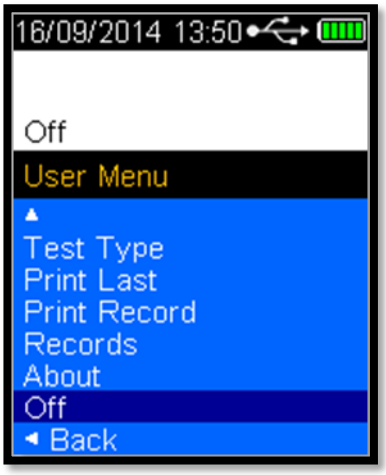

Figure 23 Off Displayed

- Press the Test Key, the instrument will turn off.

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

4 Test Options Menu

4.1 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 and Test Cancel is displayed (Refer Figure 24).
- Press the Test key. The screen will return to the press to test display.

4.2 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.
- Press the Down button to highlight Test Refuse (Refer Figure 24).

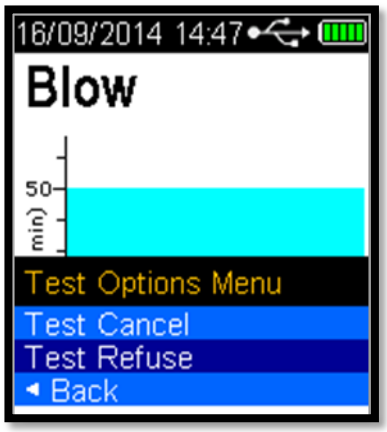

Figure 24 Test Refuse Displayed

- Press the Test Key. The instrument will beep rapidly for one second and Test Refused will be displayed flashing momentarily (Refer Figure 25). The screen will then return to the press to test display. The test refusal will be recorded in Records.

Figure 25 Test Refused Displayed

5 Accessing the Setup Menu

To make changes to the LE5 setup and the available functions, access the Setup Menu

- 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 Figure 26).

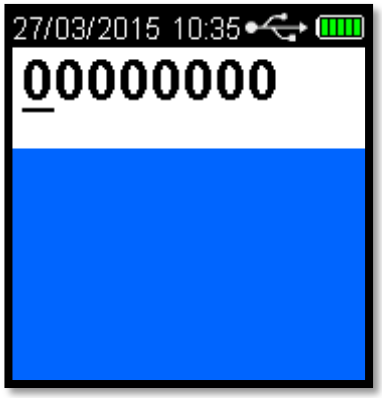

Figure 26 Password Set-up Code 00000000

- Press the test key until the cursor is under the fifth '0'.
- Press the Up button until that number us '5' (Refer Figure 27).

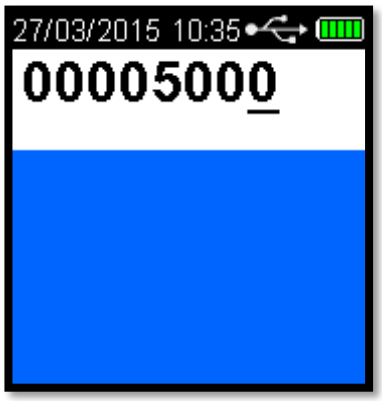

Figure 27 Password Set-up Code 00005000

- Press the test key until the Setup menu is displayed.
- In the Setup Menu you will be able to modify the following features
  - Date & time
  - Test Prompts
  - Test Options
  - User Setup Menu
  - GPS Logging
  - Bluetooth Comms
  - Reading Options
  - Timeout
  - Localization
  - Keep Previous
  - Records
  - Speaker
  - LCD Brightness
  - Recovery Countdown Enable

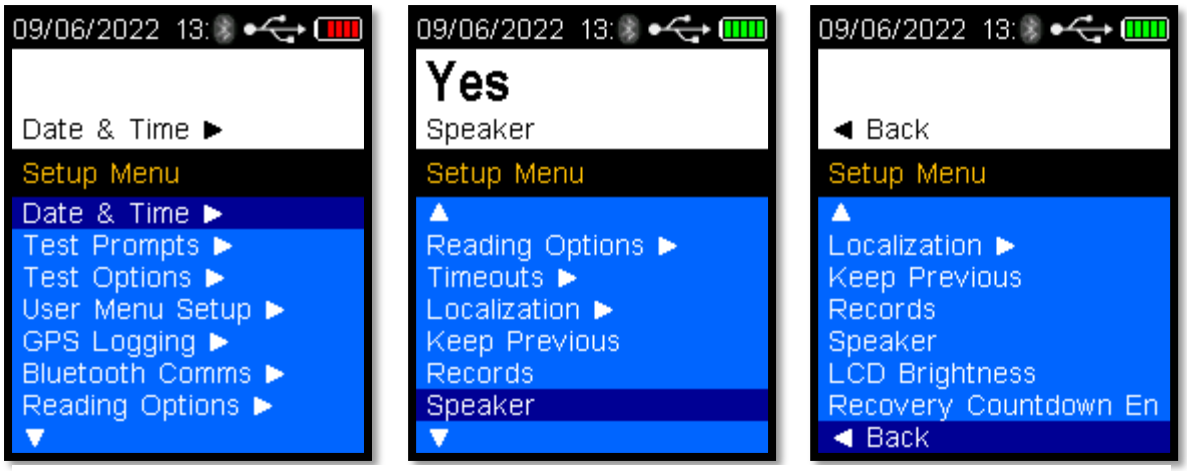

Figure 28 Setup Menu

5.1 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.

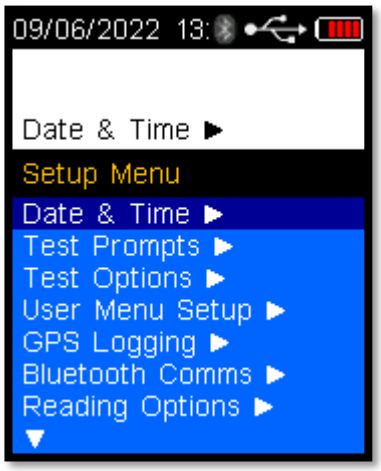

Figure 29 Date & Time

In the Date & Time menu use the Up and Down buttons to highlight Set Time and press the Test Key to access.

Figure 30 Set Time

- 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.

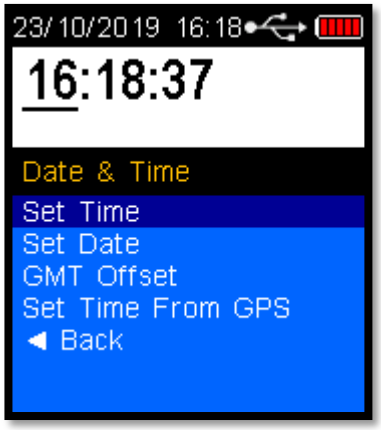

Figure 31 Set Time

In the Date & Time menu use the Up and Down buttons to highlight Set Date and press the Test Key to access.

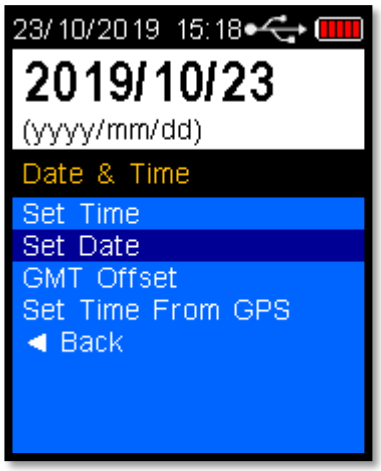

Figure 32 Set Date

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.

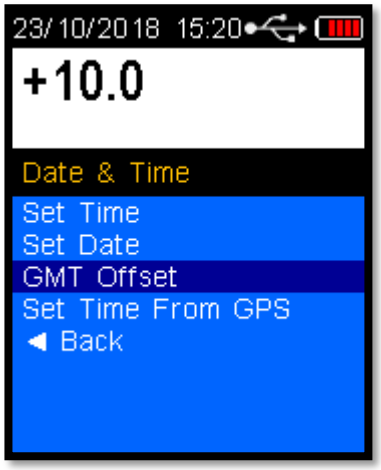

Figure 33 Set GMT Offset

- GMT Offset is the number of hours a time zone is ahead or behind GMT (Greenwich Mean time)
- Use the up and down buttons to highlight GMT Offset and select by pressing Test Key. Use the up and down keys to adjust the hours and press the test key to select.

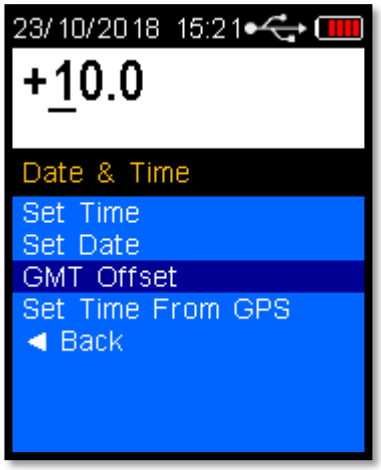

Figure 34 GMT Offset

- Set Time from GPS allows the time on the LE5 to be set from the GPS satellite connection. Use the up and down arrows to select and press the Test Key to select, then select Yes or No by pressing the Test Key.

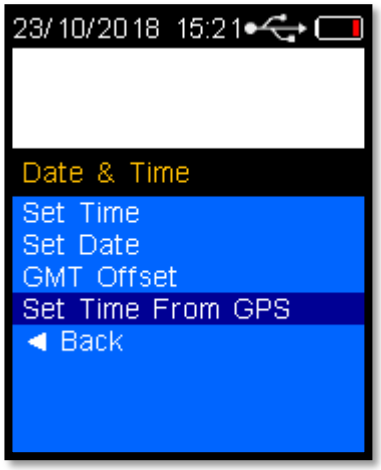

Figure 35 GMT Offset

Use the up and down buttons to highlight back and press the test key to select, this will return to the Date & Time menu.

5.2 Test Prompts

Test Prompts allows the setup of specific test or donor questions and selection of pre-defined criteria. Select Test Prompts from the Setup Menu. Use the Test Key to toggle between Yes and No to enable or disable each of the Test Prompts.

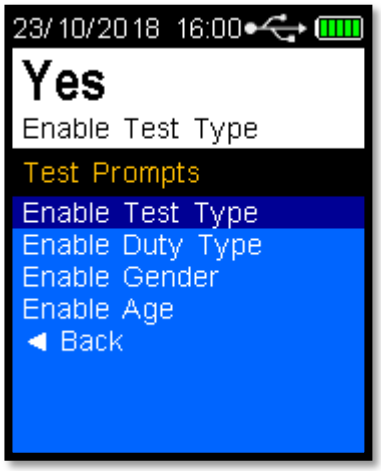

Figure 36 Enable Test Type

Selecting Test Type will result in the LE5 prompting to select one of three options when a breath test is activated.

RBT – Random Breath Test
ACC – Accident
MOB – Mobile

These acronyms will be attached to the test result and stored in the logs of the LE5.

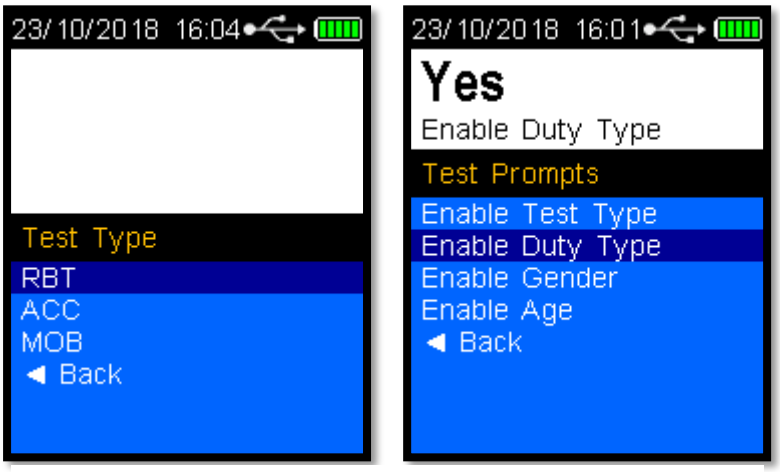

Figure 37 Test Prompts

Selecting Duty Type will result in the LE5 prompting to select one of three options when a breath test is activated.

GD – General Duties
HWP – Highway Patrol
TAG – Tactical Action Group
MAR – Marine
DET - Detectives

These acronyms will be attached to the test result and stored in the logs of the LE5.

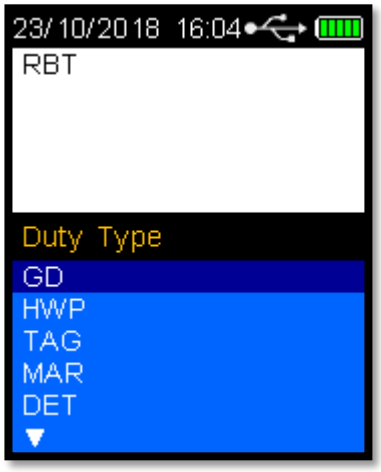

Figure 38 Duty Type

Selecting Gender will result in the LE5 prompting to select one of two options when a breath test is activated.

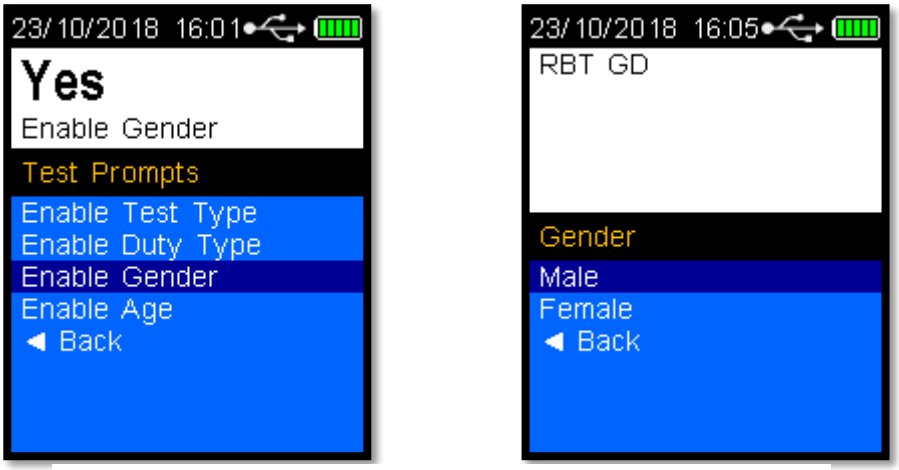

Figure 39 Gender Prompts

Selecting Gender will result in the LE5 prompting to select one of five options when a breath test is activated.

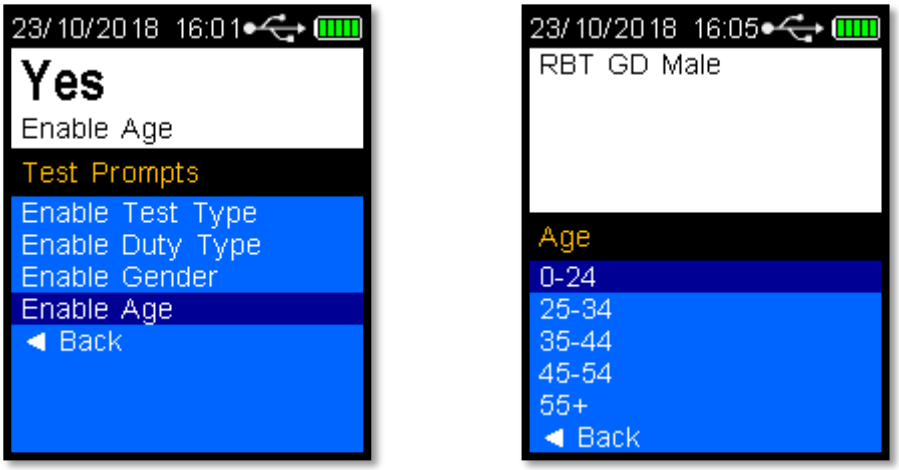

Figure 40 Age Prompts

5.3 Test Options Menu

Test Options allows the user to enable or disable specific Test Types. Use the Test Key to toggle between Yes and No to enable or disable Test Options.

- Standard (Mouthpiece) tests
- Passive Standard Tests
- Passive Only Tests

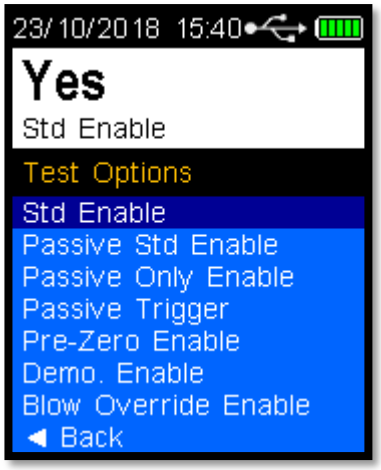

Figure 41 Test Type Option

- Passive Trigger allows the user to determine how a Passive Test can be triggered. Options are Button Only trigger, blow pressure only (Pressure Activated Passive) or both Button and Blow triggers able to be used

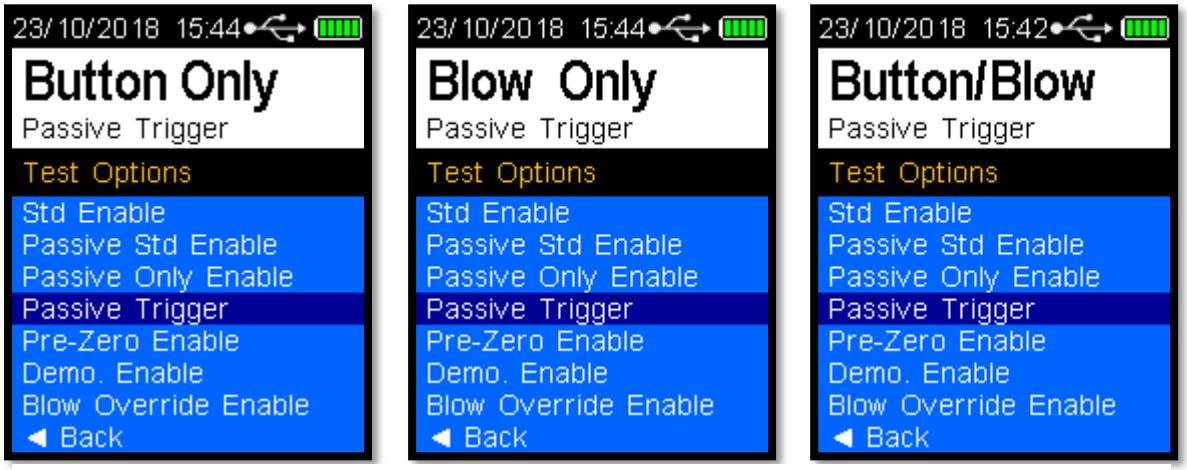

Figure 42 Passive Trigger Settings

- Pre-Zero enable allows the LE5 to complete a single test sample (noted by a click prior to a test commencing). This function is to test the local environment to ensure there is no contamination of the air with alcohol and ensure the LE5 is environment is at 0.00 BrAC.

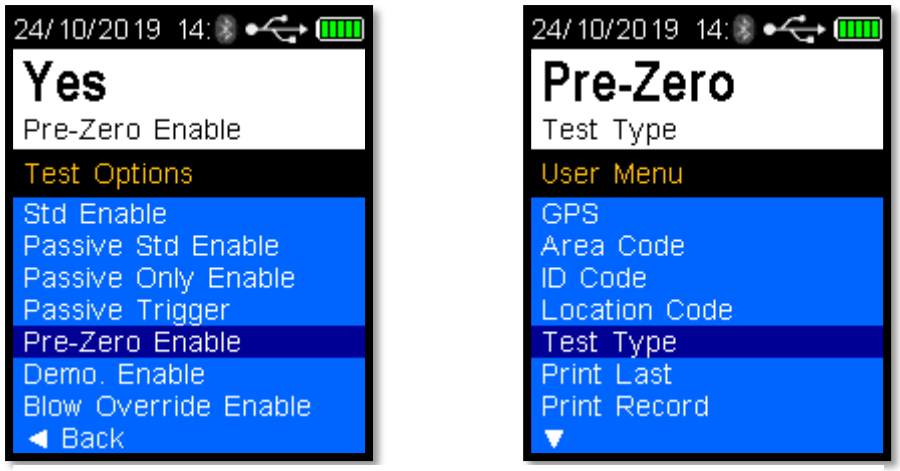

Figure 43 Pre-Zero

- Demo enable allow the user to do a demo test without the result showing in the records

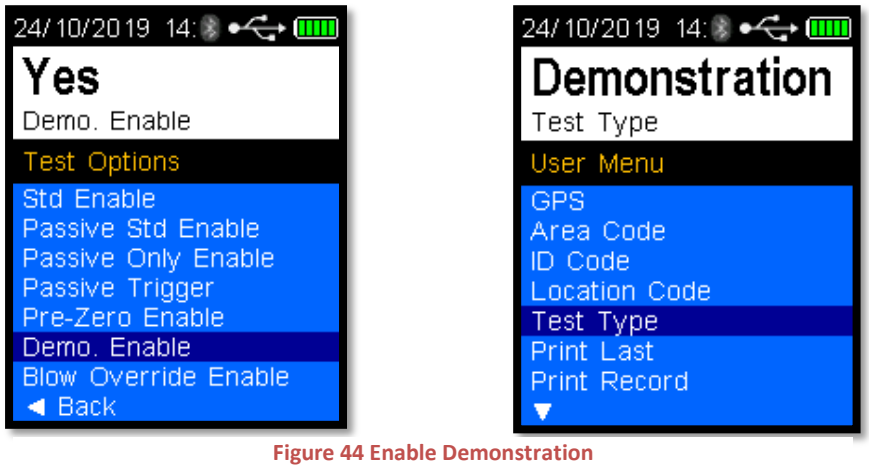

Figure 44 Enable Demonstration

- Blow Override allows the user to force a manual sample to be taken at the Blow screen

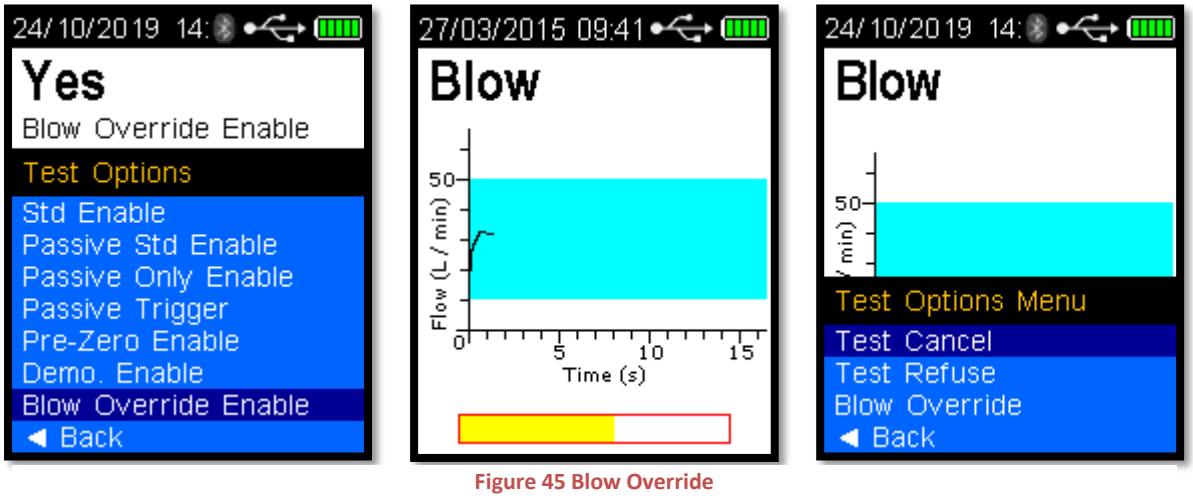

Figure 45 Blow Override

- By pressing the up and down keys together the

6 User Menu Setup

The User Menu Setup allows you to select which LE5 features are shown on the User Menu Use the Test Key to toggle between Yes and No to enable or disable features in the User Menu.

6.1 Enable GPS

Enable GPS allows for the GPS function to be shown in the User Menu. Please refer to Section 9 for instructions on the GPS function operations.

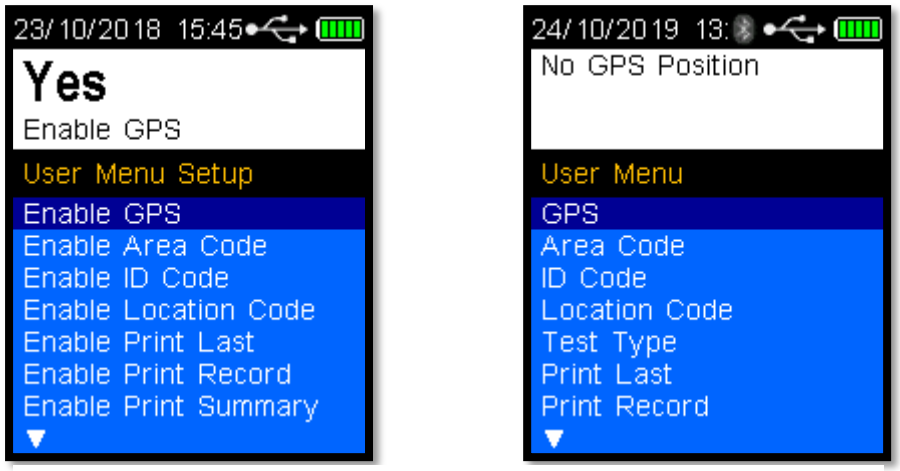

Figure 46 GPS

6.2 Enable Area Code

Area code is used to identify the location of a breath test by local Area Code.

- Press the down button and scroll to Area Code (Refer Figure 47).

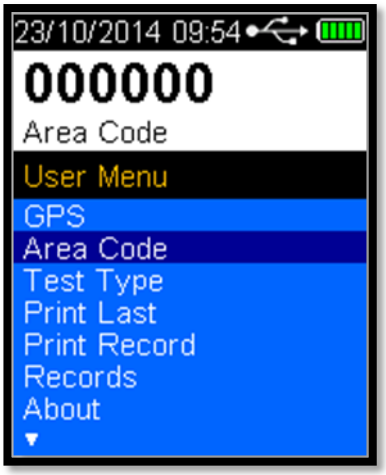

Figure 47 Area Code Displayed

- 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 the above step until all the number required are displayed (Refer Figure 48).
- The Area Code is now set

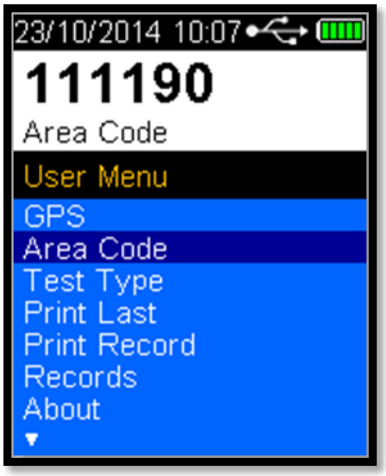

Figure 48 Area Code Set

- Press the down button until <Back is displayed
- Press the test key to return to the press to test screen.

6.3 Enable ID Code

ID Code is used to identify the ID Code of the Tester.

- Press the down button and scroll to ID Code (Refer Figure 49).

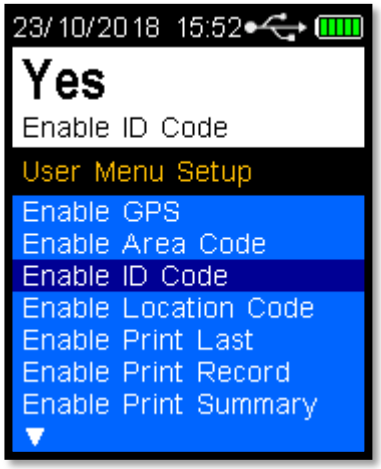

Figure 49 ID Code

- 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 the above step until all the number required are displayed (Refer Figure 50).
- The ID Code is now set

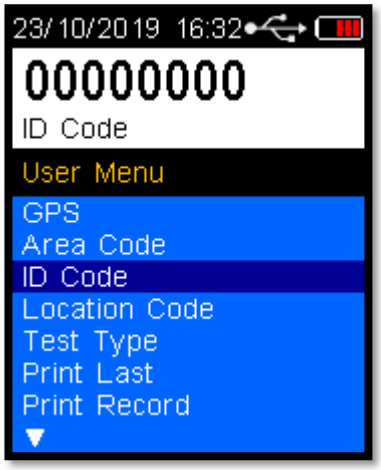

Figure 50 ID Code

- Press the down button until <Back is displayed
- Press the test key to return to the press to test screen.

6.4 Enable Location Code

Location Code is used to identify the location of a test based on specific locations codes that the tester can choose.

- Press the down button and scroll to Location Code (Refer Figure 51).

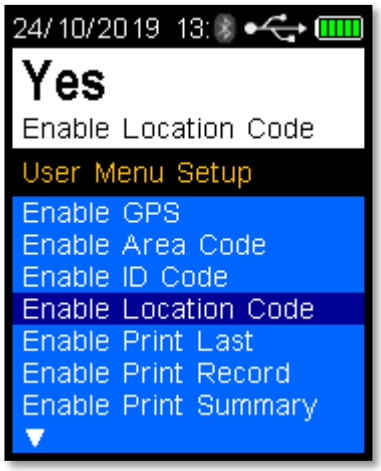

Figure 51 Location Code

- 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 the above step until all the number required are displayed (Refer Figure 52).
- The Location Code is now set

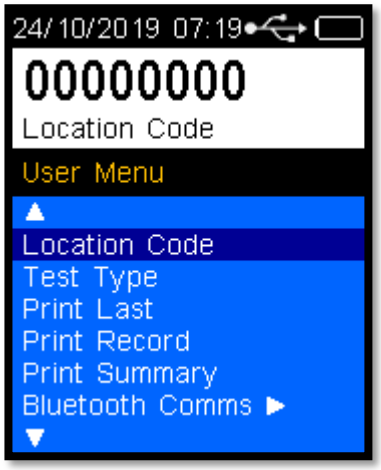

Figure 52 Location Code

- Press the down button until <Back is displayed
- Press the test key to return to the press to test screen.

6.5 Enable Print Last

Enable Print Last allows the Tester to be able to print the last test result directly from the User Menu. Use the Test Key to select Yes or No. If yes is selected Print Last will appear on the User Menu.

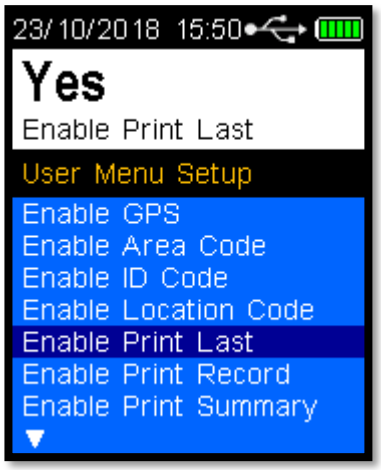

Figure 53 Enable Print Last

6.6 Enable Print Record

Enable Print Record allows the Tester to print a record directly from the User Menu. Use the Test Key to select Yes or No. If yes is selected Print Record will show in the User Menu. If this feature is selected from the User Menu, it will take the Tester to the Records Menu where they can scroll using up and down buttons to locate the record to print. Once located pressing the Test Key will activate the print function (NOTE: The Printer must be setup and connected for printing to occur).

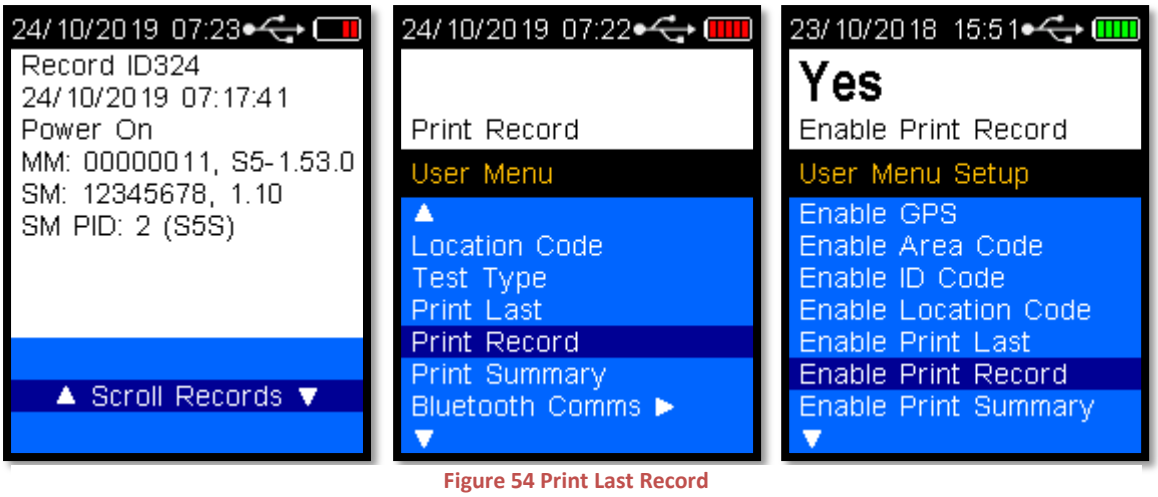

Figure 54 Print Last Record

6.7 Enable Print Summary

Enable Print Summary allows the Tester to print a Summary of range of test records from the User Menu. Use the Test Key to select Yes or No. If yes is selected Print Summary will show in the User Menu. If this feature is selected from the User Menu the tester can select a range of record numbers to print a Summary of results.

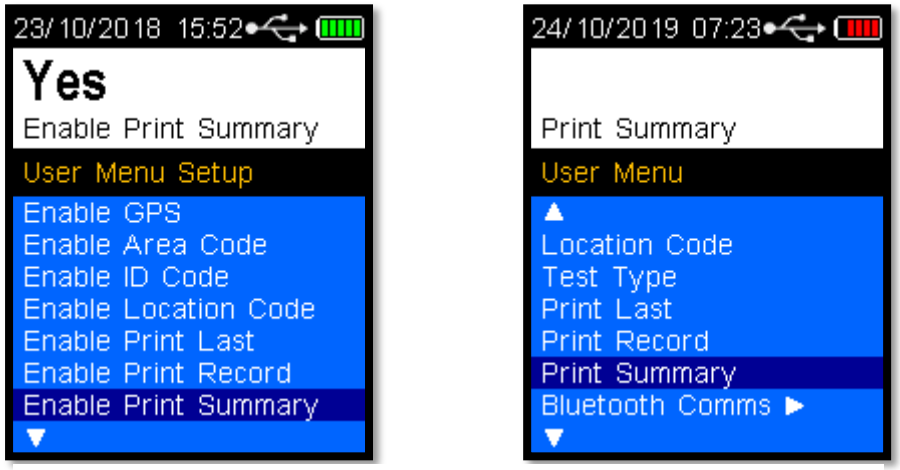

Figure 55 Print Summary

Use the up and down arrow keys to select the number of the initial record required to print. Press the Test Key to move to the next number. When the initial record number is selected press the Test Key.

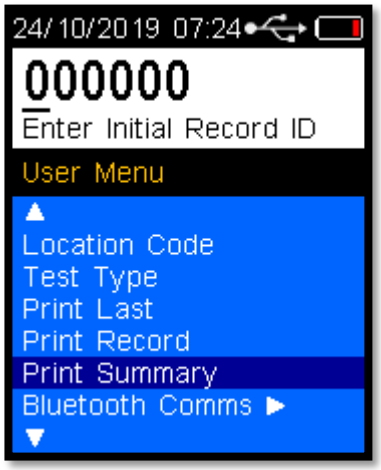

Figure 56 Print Summary

Use the up and down arrow keys to select the number of the Final record required to print. Press the Test Key to move to the next number.

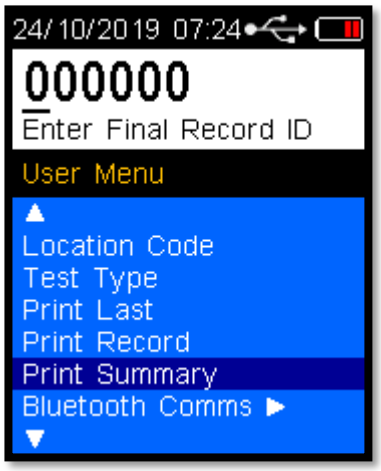

Figure 57 Print Summary Code

When the Final record number is selected press the Test Key which will activate the print function (NOTE: The Printer must be setup and connected for printing to occur, refer Section 8.8)

6.8 Enable Print Setup Menu

Enable Print Setup allows the Bluetooth Comms function to be shown on the User Menu. Use the Test Key to select Yes or No. If yes is selected Bluetooth Comms will show in the User Menu.

Figure 58 Enable Records

6.9 Enable Show Last Record

Enable Show Last Record allows Show Last Record to be a selectable function in the User Menu. Use the Test Key to toggle this feature Yes or No. When Yes is selected Last Test Result will show in the User Menu, when this is highlighted in the User Menu the last test result will show in the panel at the top of the screen.

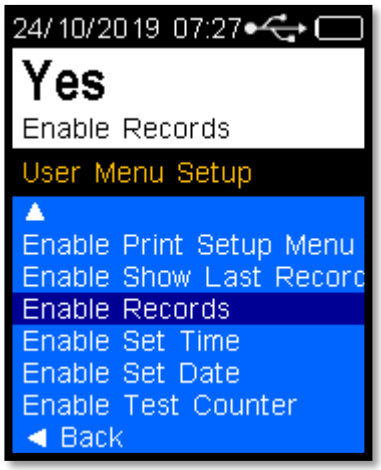

Figure 59 Enable Last Record Display

6.9.1 Accessing Records

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

- Switch the instrument on (Refer paragraph 3.5.)
- 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 Figure 60).

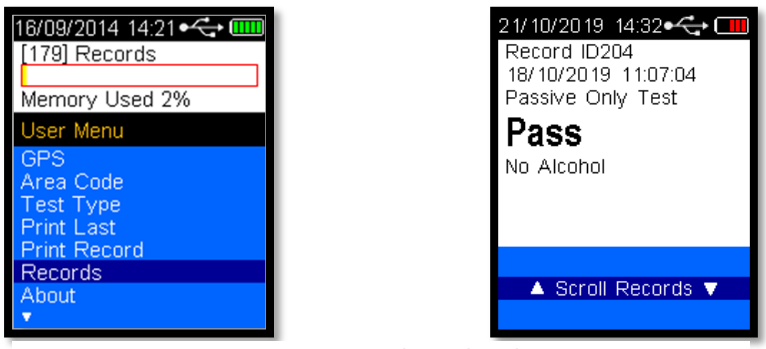

Figure 60 Records Displayed

- Press the test key to activate records
- Press the up/down buttons to navigate through the records as required
- Press the up and downs simultaneously to return to the User Menu.

Note

For information about printing records, refer to section 8.6.2.

6.9.2 Clearing Records

As the instrument automatically stores records, the memory will eventually reach capacity and unless the data is downloaded, the storage of records will cease.
The instrument provides a series of warnings regarding memory capacity including memory reaching capacity, memory full and days since the memory has been full.

The steps to clear the device records are as follows:

1. Connect the device to a computer via USB and open AlcoCONNECT Toolbox (download from here: https://www.alcolizer.com/software-updates/)
2. Enter the code `00005000` into the Set Access textbox and press the Set Access button.
3. Before clearing the records, it is recommended to download them first via the "Read Event Log" button, then "File" > "Save Event Log"
4. Navigate to "Log Records" > "Clear Device Records" and confirm you want to clear the records.

6.10 Enable Set Time

Enable Set Time allows the Set Time feature to be available in the User Menu. Use the Test Key to toggle between Yes and no.

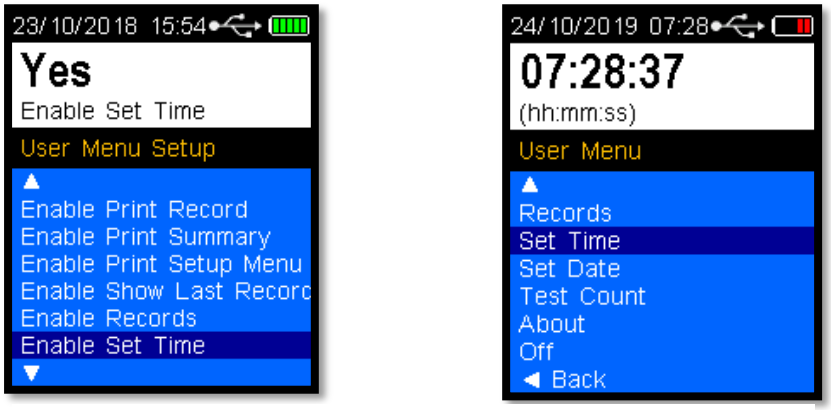

Figure 61 Enable Set Time

6.11 Enable Set Date

Enable Set Date allows the Set Date feature to be available in the User Menu. Use the Test Key to toggle between Yes and No.

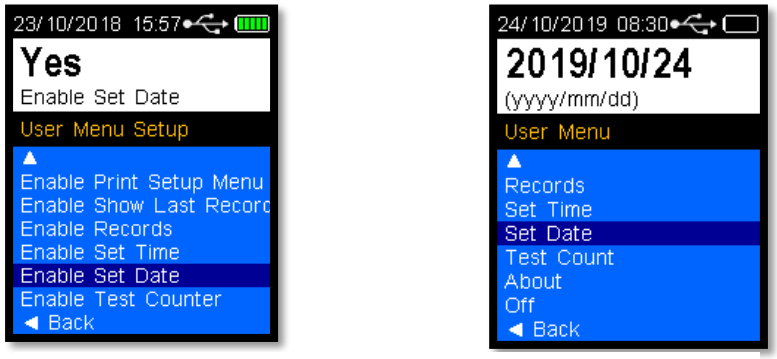

Figure 62 Enable Set Time

6.12 Enable Test Counter

Enable Test Counter activates the Test Counter feature in the User Menu. Use the Test Key to toggle between Yes and No. The Test Counter feature shows the number of tests and test types conducted.

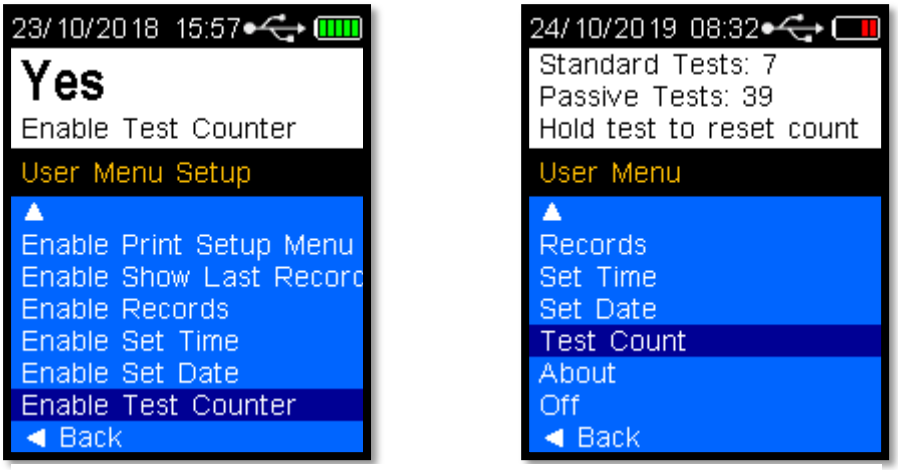

Figure 63 Enable Test Counter

7 GPS

The Global Positioning System (GPS) function (if installed) enables the exact location of the instrument to be known and under certain circumstances, the location of testing to be recorded.

Note

Depending on the specific configuration of the instrument, the GPS functions are either enabled or disabled. These functions are generally enabled as a customer requirementby Alcolizer Technology. Should the instrument require the enabling of certain GPS functionality, contact Alcolizer Technology for further advice.

7.1 GPS Location

To acquire GPS location information, perform the following steps:

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

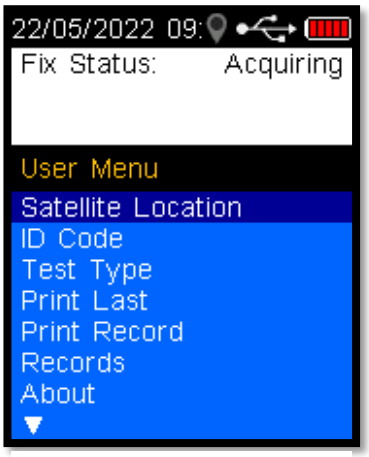

Figure 64 GPS Displayed

- Press the Down button to highlight Satellite Location (Refer Figure 66). The preview bar will display current state of GPS location fix.
- Press the test key, the GPS location information screen will be displayed.

The satellite location page shows the current GPS fix status. Once the GPS fix has been acquired, the GPS location information such as latitude and longitude will be shown (Refer Figure 65).

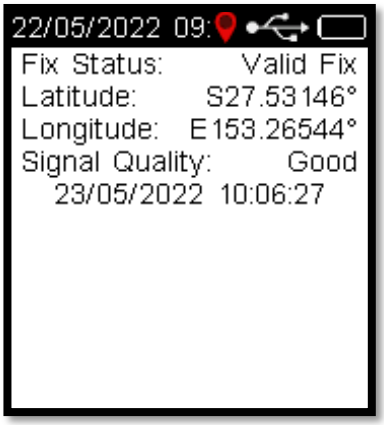

Figure 65 GPS Acquisition

Once the GPS location is acquired, it will be visible on the menu screen (Refer Figure 66).

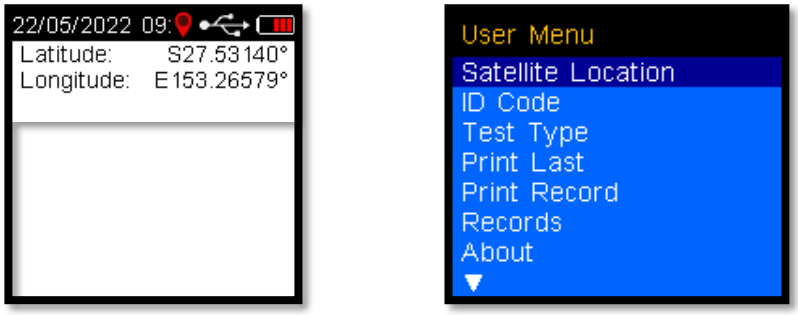

Figure 66 GPS Position on Menu Screen

7.2 GPS Status Logo

When GPS is enabled, a logo is displayed in the status bar to indicate the state of the location fix. A grey GPS location logo is displayed when the device is attempting to a acquire a GPS fix.

Once a valid GPS location fix has been acquired, the status bar logo is rendered in red and

Figure 67 Acquiring GPS fix

location can now be logged with standard breath test records.

Figure 68 GPS logo location acquired

7.3 GPS Logging Configuration

To configure the GPS location logging behaviour, access to the instrument setup menu is required. Configure GPS logging behaviour as follows:

- Switch the LE5 instrument on (Refer to section 3.5.)
- 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 Figure 69).

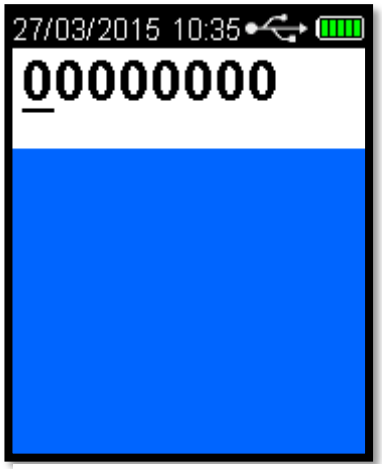

Figure 69 Password Set-up Code 00000000

- Press the test key until the cursor is under the fifth '0'.
- Press the Up button until that number us '5' (Refer **Error! Reference source not found.**).

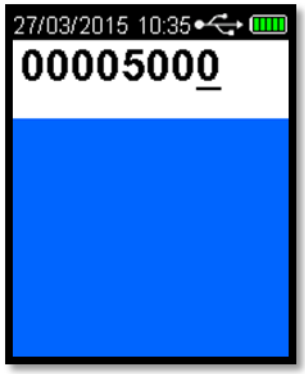

Figure 70 Password Set-up Code 00005000

- Press the test key until the Set-up menu is displayed.
- Press the Down key until *GPS Logging* is highlighted (Refer Figure 72).

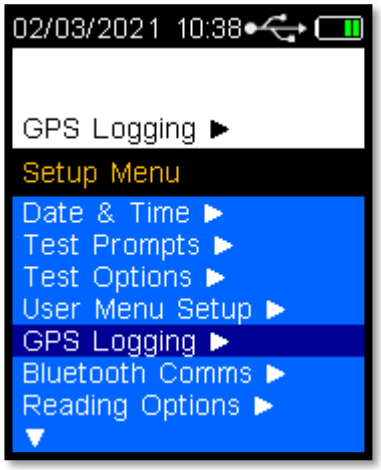

Figure 72 GPS Logging Highlighted

- Press the Down key to select *Set Location Behaviour* (Refer **Error! Reference source not found.**). Press the Test key to cycle through all the supported GPS logging

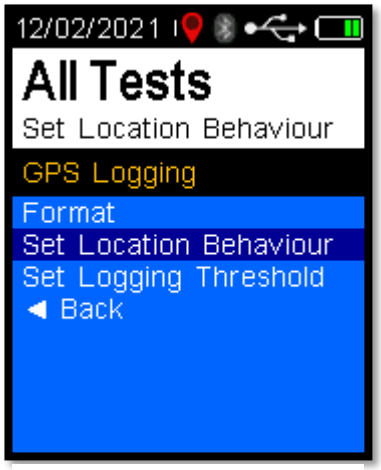

Figure 71 Set Location Behaviour

modes.

The device can be configured into different operating modes when logging GPS location with standard breath test. Supported GPS location modes include *Off*, *Positive Tests*, *All Tests* and *Threshold*. The GPS will attempt to acquire for a location fix in the background in all modes except *Off* mode.

7.3.1 Off

When the GPS location logging is disabled, the GPS location is never logged with alcohol test results. The GPS functionality is switched off in this mode.

7.3.2 Positive Tests

In this mode, the GPS location is logged only for standard breath test which contain a positive test result. All other tests are logged without GPS location.

7.3.3 All Tests

The GPS location is logged for all standard alcohol breath tests.

7.3.4 Threshold

In this mode, location is logged only for standard breath test where the reading exceeds the predefined threshold value. Location is never logged for tests where reading is below the threshold level.

7.4 Set Logging Threshold

The menu item allows operators to configure the blood alcohol level (ug/L) used to determine whether the GPS location will be logged with the rest result. If the standard alcohol test reading is greater than or equal to the threshold value, then the location information will be recorded with test.

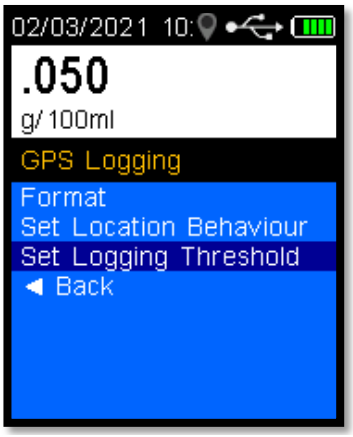

Figure 73 GPS Logging Threshold

7.5 GPS Location Logging

When the GPS logging is enabled, the instrument will attempt to acquire a valid GPS fix in the background. Once the GPS location is acquired, the instrument will log a GPS position fix with every Standard Active Breath Test when the BrAC reading is displayed. The GPS position fix will then be logged with the test reading (Refer Figure 74).

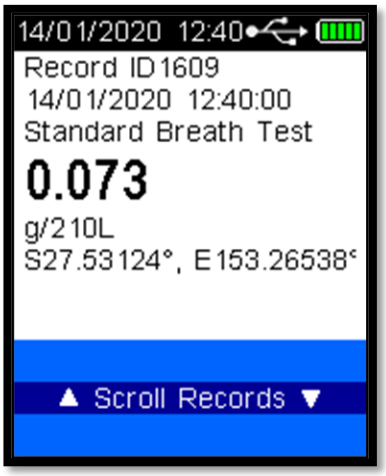

Figure 74 GPS Position Displayed in Records

If a standard breath test is conducted while the instrument is still attempting to achieve a valid GPS fix, the operator will be prompted with a new screen informing that the GPS is currently acquiring location fix.

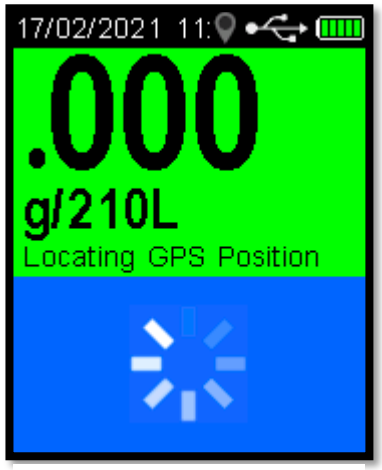

Figure 75 Locating GPS Position

If a valid location fix is acquired, then the device will notify the operator and then the GPS location will be logged with the standard test result.

Figure 76 GPS Location not found

However, If GPS position fix could not be achieved successfully then the operators are prompted with an option to either continue looking for GPS location fix or log the test result without location information.

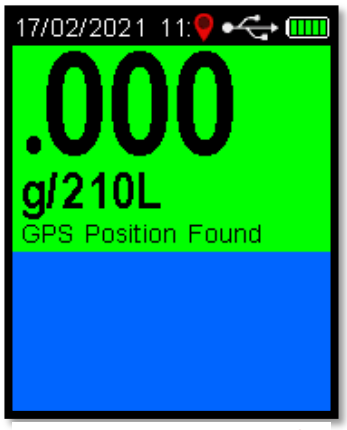

Figure 77 GPS Position Found

8 Bluetooth Comms

The printing and sending data function (if installed) enables the printing and sending of records by connecting the LE5 to a secondary device, either a suitably enabled printer, or App operated on a mobile phone or Tablet, via Bluetooth connection.

The instrument supports the following printers:

- SPRT SP-T5
- Bidoon SPP-R200
- SPRT SP-T7
- Confucian 200-BU
- POS-5802DD

The instrument can be used in conjunction with the following Apps:

- Alcolizer Technology 'On-Site Testing App'
- Alcolizer Technology 'Data Relay App'
- Alcolizer Technology 'AlcoCONNECT Mobile'

Note

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

For information on using the appropriate App refer to the App User Manual, note some restrictions on third party device type and compatibility with different instrument models may apply.

8.1 Bluetooth Connection

To establish the connection with the printer access to the instrument set up menu is required. Establish Bluetooth connectivity as follows:

- Switch the LE5 instrument on (Refer to section 3.5.)
- 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 Figure 78).

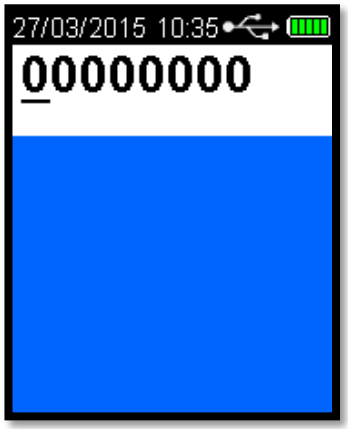

Figure 78 Password Set-up Code 00005000

- Press the test key until the cursor is under the fifth '0'.
- Press the Up button until that number us '5' (Refer Figure 79).

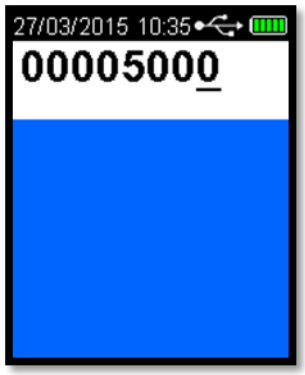

Figure 79 Password Set-up Code 00005000

- Press the test key until the Set-up menu is displayed.
- Press the Down button until Bluetooth Comms is highlighted (Refer Figure 80).
- Press the test key, Bluetooth Comms Screen is displayed.

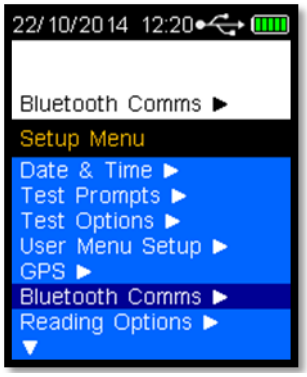

Figure 80 Bluetooth Comms

- Press the test key to enable Bluetooth. The Bluetooth logo should now appear on the screen (Refer Figure 81) to the right side of time display.

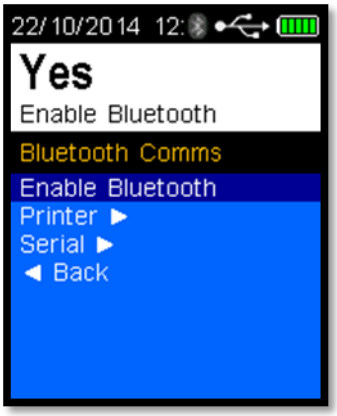

Figure 81 Enable Bluetooth

8.2 Printer

To connect the instrument to the printer via Bluetooth, proceed as follows:

- Access the Bluetooth Comms menu as described in section 8.
- Press the down button until Printer is highlighted (Refer Figure 82).

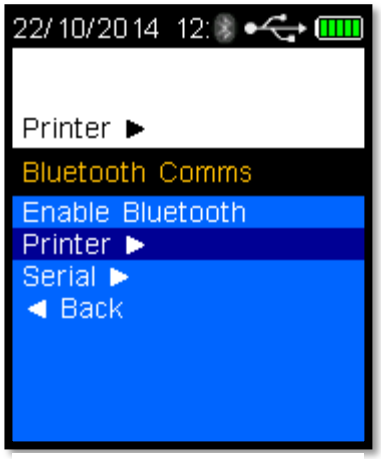

Figure 82 Printer

- Press the test key, the printer screen will be displayed (Refer Figure 83)

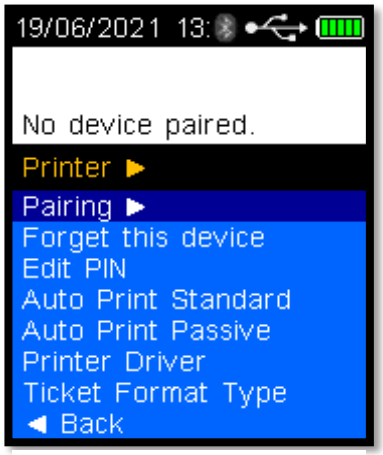

Figure 83 Printer Menu

- Place the LE5 instrument next to the Bluetooth printer and then switch the printer on.
- Press the test key, the LE5 will search for the printer and display Searching … (Refer Figure 84).

Figure 84 Searching Displayed

Note

The LE5 will search and display all Bluetooth instruments in range. To avoid attempting to connect to an instrument other than the intended printer, move other Bluetooth items away.

- When the LE5 identifies the printer, the printer type will be displayed, e.g., "'SPP-R200' (Refer Figure 85).

Figure 85 Printer Identified

- Press the test key to accept the selected printer. The instrument will display the Paired message on successful pairing (Refer Figure 86).

Figure 86 Printer Paired

8.3 Printer Driver

8.3.1 Installing the Printer Driver

To install the printer driver, proceed as follows:

- Access the printer menu as described in paragraph 8.2.
- Press the down button to scroll down to Printer Driver (Refer Figure 87).

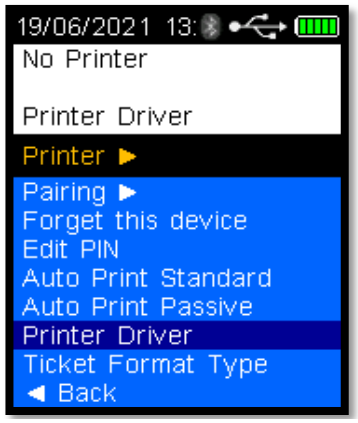

Figure 87 Printer Driver Displayed

- Press the test key
- Press the down button and scroll down to the printer brand and type, e.g., Bixolon SPP-R200.
- Press the test key, the printer brand and type will be displayed on the screen, e.g. Bixolon SPP-R200 (Refer Figure 88).

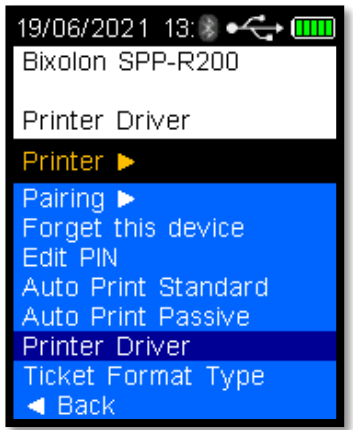

Figure 88 Printer Brand and Type Displayed

- Once the LE5 instrument is paired with the printer, the Bluetooth icon turns blue and is always visible on the screen (Refer Figure 89)

Figure 89 Bluetooth Icon on Screen

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

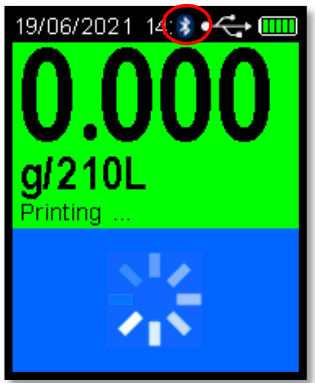

Figure 90 Bluetooth Active Icon

8.4 Auto Print

Note

To ensure the correct operation of the Auto Print function, Auto Send Standard and Auto Send Passive must be sent to None.

The Auto Print functions allow the automatic printing of results via a Bluetooth connection to a paired printer.
There are two Auto Print modes and each of these have three options. These are Auto Print Standard and Auto Print Passive. Both have the following options:

- Positive - Prints positive results after tests are completed
- All - Prints positive and zero results after tests are completed
- None - Regardless of results: nothing is printed

8.4.1 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 time, location (lat./long. if GSP enabled), result etc will be printer.
- All - Regardless of results: a complete report including time, location (lat./long. if GPS enabled), result etc will be printed.
- None - Regardless of results: nothing is transmitted

To set the LE5 to Auto Print Standard, scroll down until Auto Print Standard is selected. Positive is the default option. To select All or None, press the test key until the desired option is highlighted (Refer Figure 91).

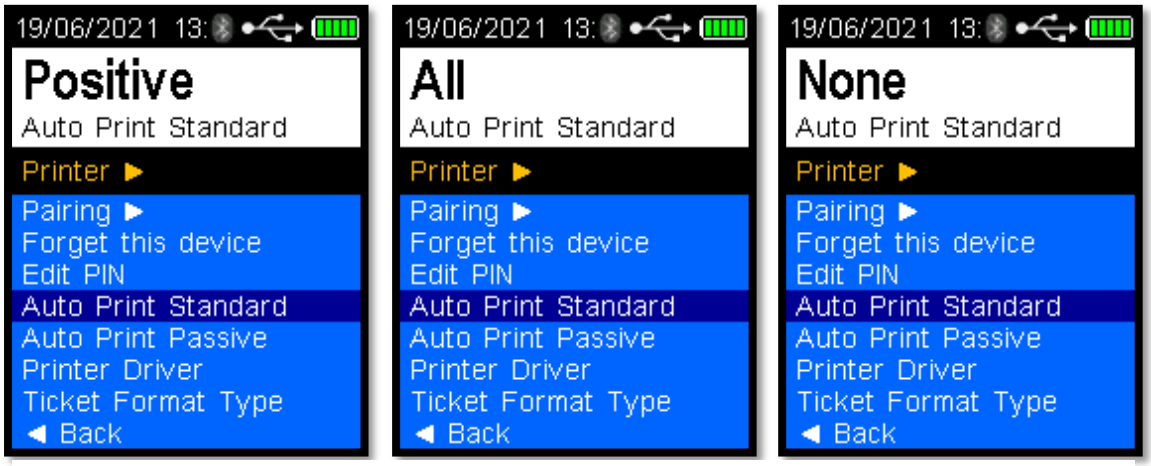

Figure 91 Auto Print Standard with the Three Options

8.4.2 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 time, instrument information, etc will be printed.
- All - If alcohol is either detected or not: a short report including time, instrument information, etc will be printed.
- None - Regardless of results: nothing transmitted

To set the LE5 to Auto Send Passive, scroll down until Auto Print Passive is the default option. To select All or None, press the test key until the desired option is highlighted (Refer Figure 91).

8.5 Setting the Bluetooth Printer PIN

Once the printer drive is installed, it may be necessary to set the correct PIN for the printer. To set the PIN, proceed as follows:

- Access the printer menu as described in paragraph 6.2.

Note

It may not be necessary to follow all the procedures above depending on the last screen that was displayed.

- Press the down button and scroll to Edit Pin.
- Press the test key, enter pin length will be displayed (Refer Figure 92).

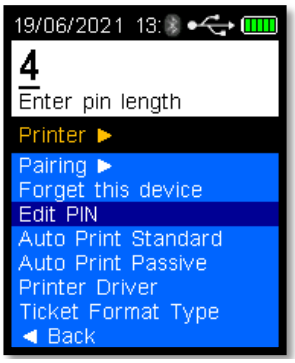

Figure 92 Enter Pin Length Displayed

- Refer to Table 1 for the printer PIN length and number. The Communications Range is provided as additional information.

Standard Printers	PIN Digit Length	PINs	Communication Range
Bixolon SPP-R200	4	0000	Up to 10 Meters
SPRT SP-T7	4	1234	Up to 5 Metres
POS-5802DD	4	0000	Up to 10 Meters

Table 1 Printer PIN Length Displayed

- 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 and repeat the above step.
- Repeat the last two steps until all numbers are displayed as required by the printer (Refer Figure 93).

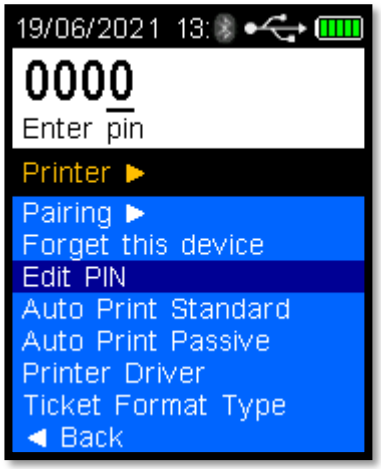

Figure 93 PINs Entered

- Press the test key, the PIN is now set

8.6 Ticket Format Type

LE5 devices have multiple different formats for printed ticket receipts. These formats may be in a different language, have a different layout or have additional information. Press the test key to change the format to the next one in sequence (e.g., 0 to 1, 1 to 2, 9 to 0) Refer to Figure 94. Alcolizer recommends all customers maintain the default format value of 0 unless advised otherwise.

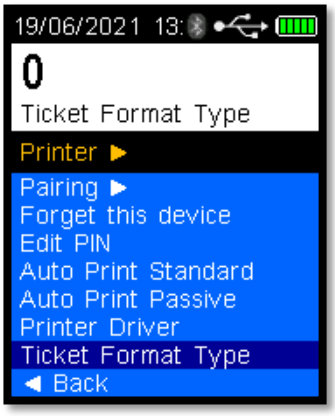

Figure 94 Ticket Format Type

- Default standard format- See print ticket below (Refer Figure 95)

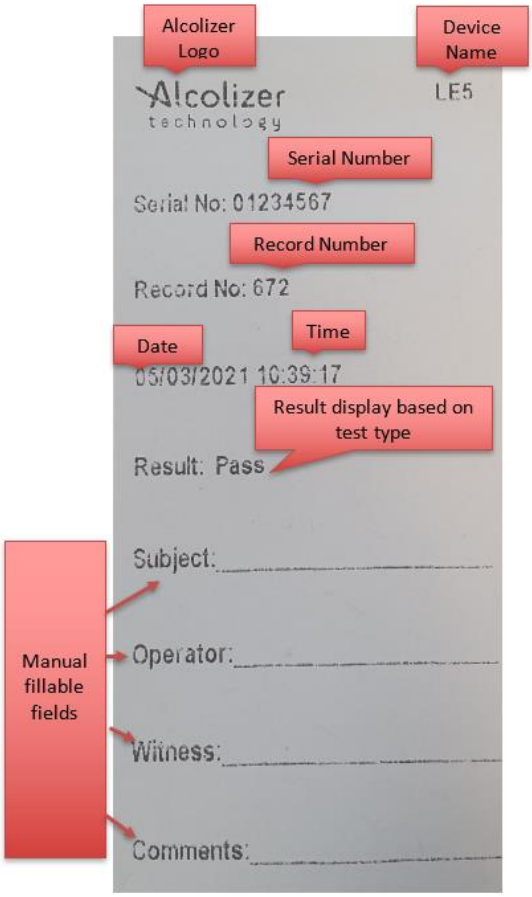

Figure 95 Print Ticket- Format 0

- Other ticket formats on the Alcolizer LE5 apply to export markets. Contact Alcolizer Technology if you require further details.

8.7 Printing Records

8.7.1 Automatic Printing

Once the LE5 and printer are paired, turned on and within Bluetooth range, the printer will automatically print a record of the breath sample if required settings have been selected.

8.7.2 Printing Records

To print the last breath test, 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 Print Last (Refer Figure 96).

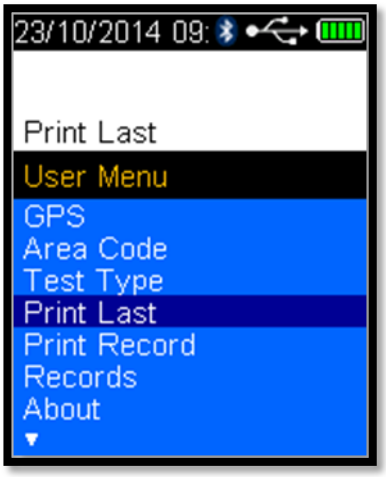

Figure 96 Print Last Displayed

- Press the test key, the printer will print the last test

To print a record, 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 Print Record (refer Figure 97).

Figure 97 Print Record Displayed

- Press the test key, records will be displayed.
- Press the up/down buttons as needed to locate the record required.
- When the required record is located, press the test key. The record will be printed.

Note

For information about Records, Refer to Section 6.10.

8.8 Serial Instrument

To connect the instrument to a serial instrument (laptop computer, PC, Tablet, Mobile Phone) via Bluetooth, proceed as follows:

- Access the Bluetooth Comms menu as described in Section 8.
- Press the down button until Serial is highlighted (Refer Figure 98).

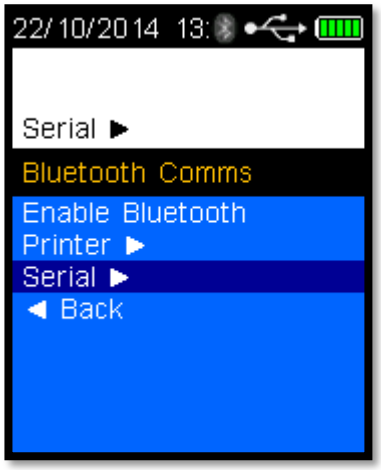

Figure 98 Serial Menu

- Press the down key until Forget this device is selected.
- Press the test key to clear pairing.

Note

If previously paired, the LE5 must be forgotten from the device Bluetooth settings. Refer to appropriate APP user manual for details.

- Press the up key until Pairing is selected
- Press the test key, the Serial screen will be displayed (Refer Figure 99).

Figure 99 Serial Menu

- Place the LE5 instrument next to the Bluetooth serial instrument turned on.
- Press the test key, the LE5 will search for the serial instrument and display Searching… (Refer Figure 100).

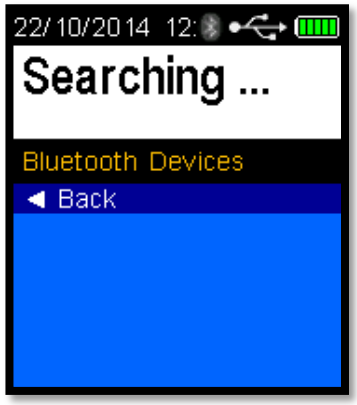

Figure 100 Searching Displayed

- When the LE5 identifies the serial instrument, the instrument name will be displayed (Refer Figure 101).

Note

The LE5 will search and display all Bluetooth instruments in range. To avoid attempting to connect to an instrument other than the intended serial instrument, move other Bluetooth items away.

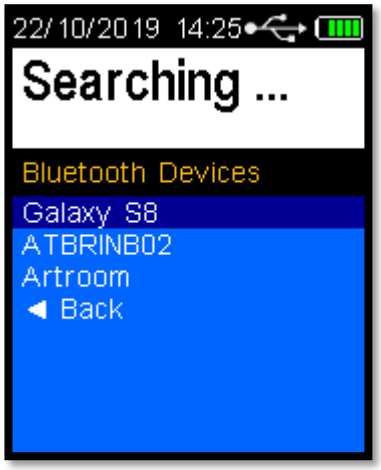

Figure 101 Serial Instrument Identified

Note

The LE5 will not list any IOS devices in the pairing screen. Instead, the instrument will respond to pair attempt made from the App.
Refer to appropriate APP user manual for details.

- Press the test key to accept the selected serial instrument. The instrument will display the Paired message on successful pairing (Refer Figure 102).

Figure 102 Serial Instrument Paired

8.9 Setting the Bluetooth Serial Instrument PIN

It may be necessary to set the correct PIN for the serial instrument. To set the PIN, proceed as follows:

- Access the printer menu as described in section 8.2.

Note

It may not be necessary to follow all of the procedures above depending on the last screen that was displayed.

- Press the down button and scroll to Edit Pin
- Press the test key, enter pin length will be displayed (Refer Figure 103).

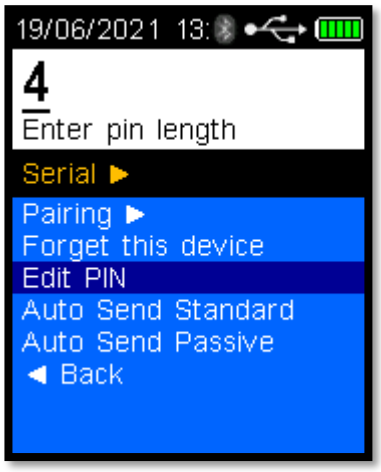

Figure 103 Enter Pin Length Displayed

- Using the up/down buttons, select the PIN length that applies to the serial instrument
- 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 nest number and repeat the above step.
- Repeat until all numbers are displayed as required by the printer (Refer Figure 104).

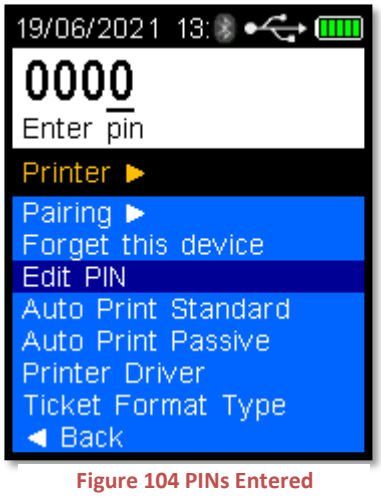

Figure 104 PINs Entered

- Press the test key, the PIN is now set.

8.10 Auto Send

Note

To ensure the correct operation of the Auto Send function, 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 instrument (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 have three options:

- Positive- Sends positive results after a test is complete
- All- Sends positive and zero results after test is completed
- None- Regardless of results: Nothing is transmitted.

8.10.1 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 test:

- Positive- If alcohol is detected: a complete report including time, location (lat./long. if GSP enabled), test type, result etc will be transmitted
- All- Regardless of results: a complete report including time, location (lat./long. if GPS enabled), test type, result etc will be transmitted
- None- Regardless of results: nothing is transmitted

To set the LE5 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 (Refer Figure 105).

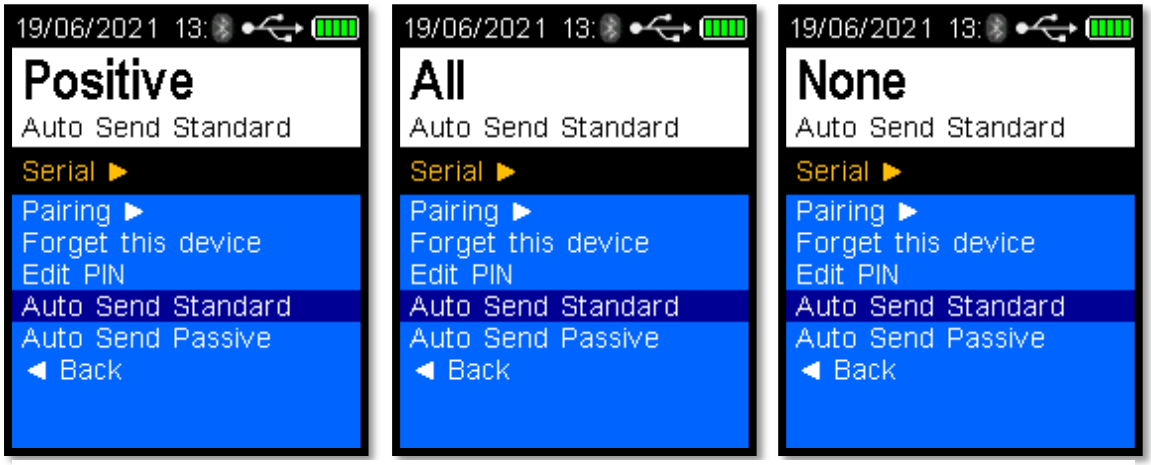

Figure 105 Auto Send Standard with the Three Options

8.10.2 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 per the following explanations:

- Positive- If alcohol is detected: A short report including time, instrument information, test type, etc will be transmitted.
- All- If alcohol is either detected or not: A short report including time, instrument information, test type, etc will be transmitted
- None- Regardless of results: Nothing transmitted

To set the LE5 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 (Refer Figure 106).

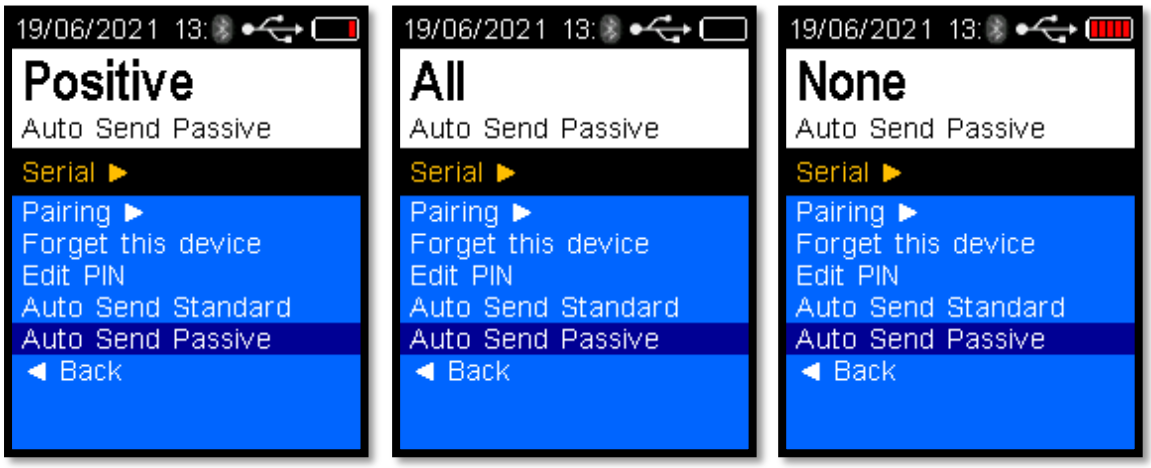

Figure 106 Auto Send Passive with the Three Options

9 Reading Options

9.1 Changing colour set points

To change the colour set points, access the Setup Menu using the 00005000 code (see section 6.1 Bluetooth Connection).

- From the Setup Menu, arrow down to 'Reading Options'

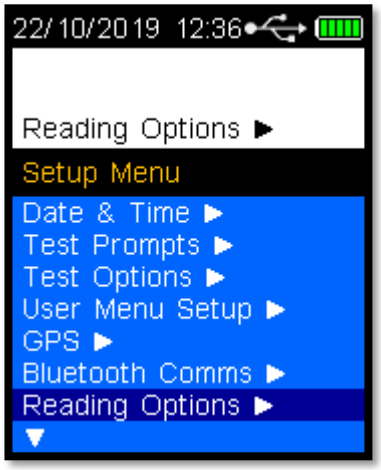

Figure 107 Reading Options

- From the Reading Options Menu, arrow down to Low Setpoint and then High Setpoint.
- Use the Test Key and arrow keys to set the required levels.

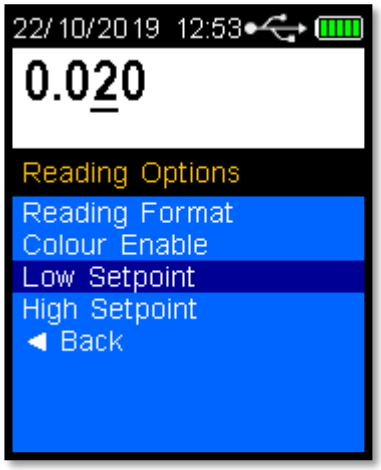

Figure 108 Setting the Reading Options

- Arrow Up or Down to 'Back' to Return to the User Menu
- Use the Test Key and arrow keys to set the required levels.

10 Timeouts

The Timeouts feature allows the user to change the duration of time for: Auto backlight off Auto instruments turn off

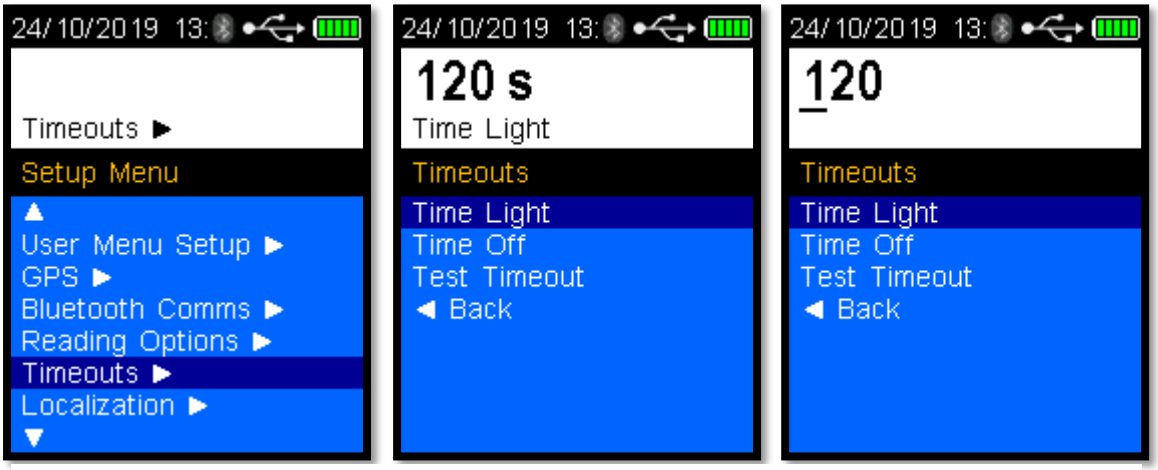

Figure 109 Timeouts

- From the Setup Menu, arrow down to 'Timeouts', press the Test Key to select
- Use the Test Key and arrow keys to set the required times in seconds for each setting.

11 Localization

- The Localization setting is where the user can select local settings for:
  - Language – chose from listed languages
  - Time Format – 12hr/24hr, HH:MM: SS
  - Date Format – dd/mm/yyyy, mm/dd/yyyy, dd/mm/yy, dd-mmm-yyyy, yyyy/mm/dd
  - Decimal Mark or Comma for numeric differentiator
- From the Setup Menu, arrow down to 'Localization', press the Test Key to select

Figure 110 Localization

- Use the Test Key and arrow keys to set the required formats for each setting.

12 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.

Figure 111 Keep Previous

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

Figure 112 Area Code Set

Use the Test Key to select Yes or No. If yes is selected in the Keep Previous function the LE5 will display the last test record in the top of the screen.

13 Records

The Records feature will display current records on the instrument and percentage of memory used. Selecting Records using the Test Key will take you to the Records screen where individual records can we scrolled using up and down buttons.

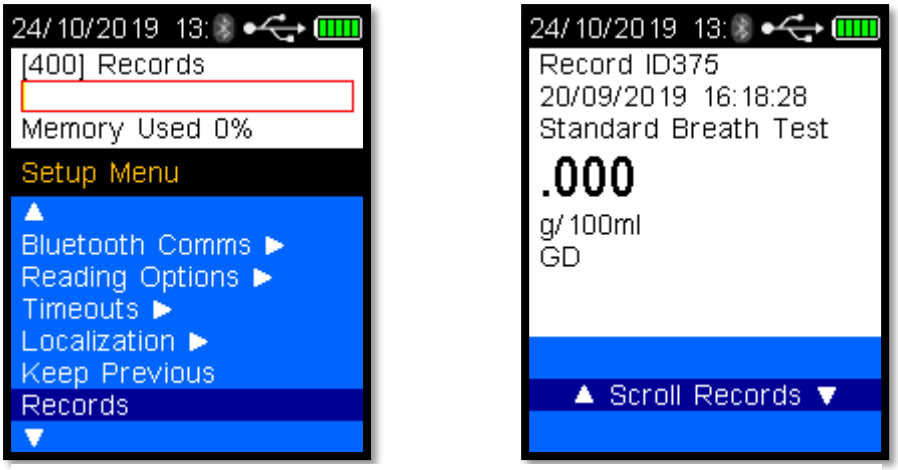

Figure 113 Records

14 Speaker

The Speaker function allows the user to turn on/off the speaker on the LE5. Use the Test Key to toggle between Yes and No. Yes, will turn on the Speaker, No will turn it off.

15 LCD Brightness

The LCD Brightness feature allows the user to adjust the brightness of the LCD screen. Use the Test Key to select LCD Brightness. Then use the up and down arrow keys to increase or decrease the brightness. Once the desired brightness is selected press the Test Key to select.

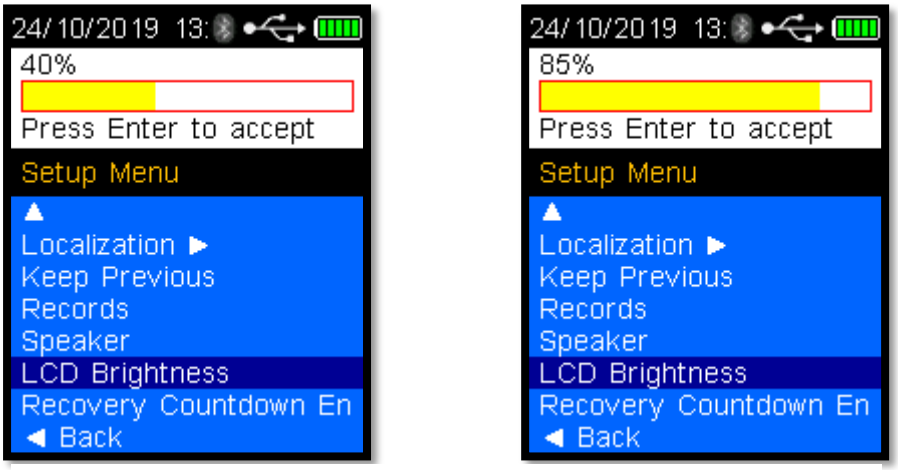

Figure 114 LCD Brightness

16 Recovery Countdown

The Recovery Countdown feature allows for a countdown to zero display on screen for instrument recovery after a breath test. Use the Test Key to toggle between Yes and No. Yes, will activate the Recovery Countdown feature, No will turn it off.

Figure 115 Recovery Countdown

17 Warning Beacon Display

The Warning Beacon feature activated a blue and red flashing screen which can be used in dark conditions as a flashing warning beacon. To enable the Warning Beacon Display, hold the Up-arrow key for 5 seconds. To turn this, feature off, press any key.

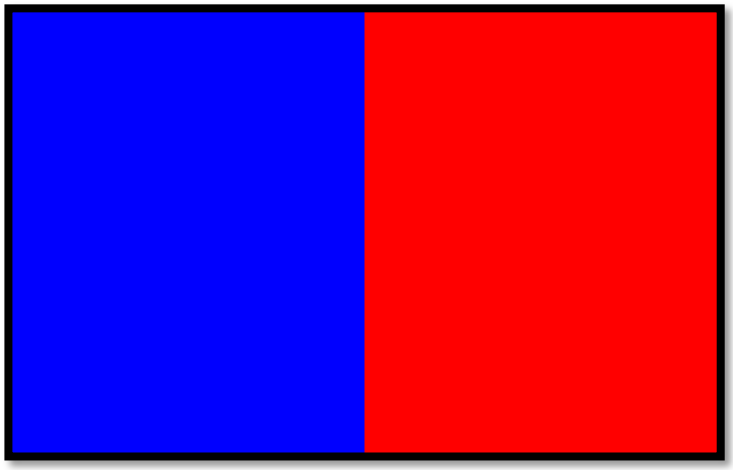

Figure 116 Warning Beacon Display

18 Calibration

18.1 Calibration Alerts

The Alcolizer LE5 requires calibration every twelve (12) months as per Australian Standards Certification requirement. The maximum calibration period displayed, in days, will be 393 Days which is a standard 365 Days plus 28 Days in accordance with AS3547:2019 Certification.

The instrument will display a warning message after switching on if 14 days or less remain before calibration is required (Refer Figure 117).

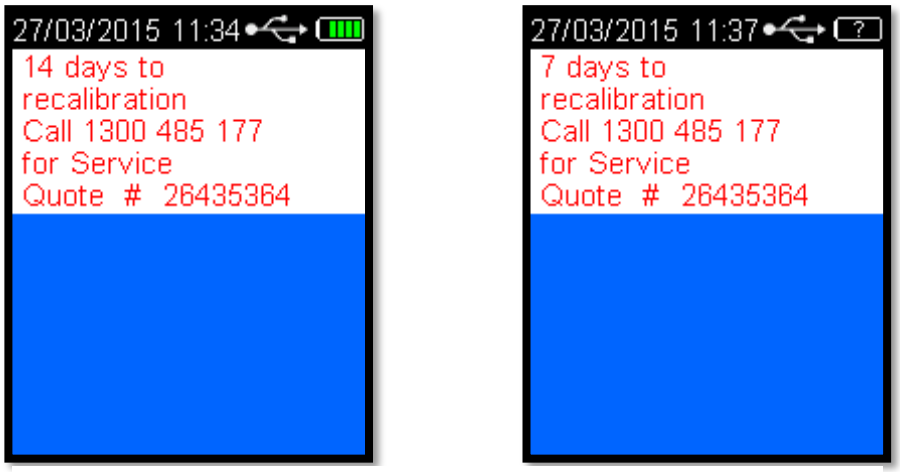

Figure 117 Days to Calibration Displayed

- To cancel the warning messages, press the test key, the instrument will resume normal operation until zero days to re-calibration is reached.
- When the re-calibration warning message period have expired, the Recalibration Due Now screen is displayed and the instrument is locked, preventing any further breath tests being performed whilst the instrument is in an uncalibrated state, this remains so until the instrument is re-calibrated (Refer Figure 118).

Figure 118 Recalibration Due Now Message

Caution

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

18.2 Replacing the Sample Module

Rather than returning the entire instrument to Alcolizer for calibration, the quick-release sample module can be removed and sent for Calibration. This saves instrument downtime, time, and money and if the owner details are known and maintained with Alcolizer, arrangements can be made to forward a replacement sample module prior to the calibration being overdue.

Remove and replace the sample module as follows (Refer Figure 119):

- Undo the single screw on the back of the main module
- Slide off the out-of-calibration sample module
- Slide on the new sample module
- Do up the single screw on the back of the main module.

Caution

Do not over tighten the sample module securing screw as this will damage the threaded portion. Tighten only enough to prevent the sample module from sliding away from the main module.

Figure 119 Replacing a Sample Module

Following the replacement of the sample module, return the out-of-calibration sample module back to Alcolizer.

The instrument can be returned to Alcolizer Technology at any time for calibration should the owner prefer prior to the number of days warning message period expiring. To arrange calibration, contact Alcolizer Technology by an of the following means:

- Phone- 1300 789 908
- Email- recals@alcolizer.com
- Website- www.alcolizer.com

19 Specifications

The technical specifications of the LE5 are detailed in Table 2.

Instrument Application	*Industry – Mouthpiece and Passive*
BrAC Range	0.000 - 0.462 g/210L
Accuracy	Better than 0.005 at 0.100 g/210L BrAC
Test Time	Within 3-5 seconds at 0.100% BrAC
Recovery Time	Instantaneous for 0.0000 BrAC readings (reading remains 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 mouthpiece. (Mouthpieces are not required for Passive testing)
Sensor Type	Law enforcement grade electrochemical fuel cell (premium platinum)
Power Supply	Rechargeable Li-ION battery
Weight	272 grams (Including battery and cover)
Dimensions	202mm H x 63mm W x 39mm D
Calibration	12 monthly recalibrations at Alcolizer Technology's service facility

Table 2 LE5 Technical Specification

20 About Screen

20.1 Locating the Serial number and calibration expiry

1. Press the up and down button simultaneously to access the menu screen

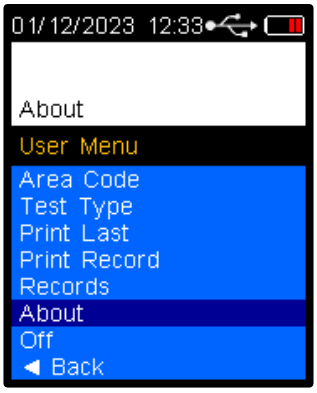

Figure 120 User menu

2. Select about to access the Australian standards page

Figure 121 Australian Standard Logo

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

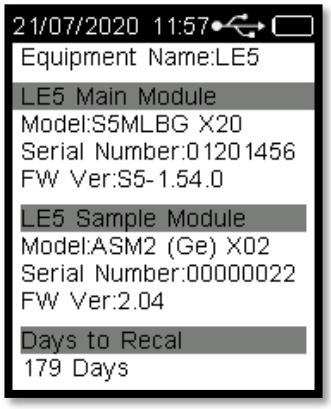

Figure 122 Device Information Display

21 Splash Screen Display

This feature will allow the splash screen to be held on the screen at start up. 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.

Figure 123 Splash screen Display

22 Error Codes

The Alcolizer LE5 is a highly robust and reliable device with a proven track record of operation in the harshest of field environments. In the unlikely event of an instrument failure the system uses a series of error codes, on encountering an error code please perform the following:

1. Note the error code number
2. Restart the instrument
3. If necessary, perform a “Three Button Reset” by holding all three front panel keys down simultaneously.
4. Wait approximately 10 seconds before restarting the LE5
5. If the error code has cleared it is safe to continue using the instrument
6. Note the instrument Logs will have recorded the presence of an error code with a time and date stamp
7. If the error code persists, please contact an Alcolizer representative

23 Training & Education

Alcolizer offer a range of useful information including training courses and white papers via our website www.alcolizer.com.

Available training courses are generally organised in to three applications:

1. General product familiarisation for users new or seeking a refresher on how to use, care for, and maintain their Alcolizer products.
2. Specific application training on how to use Alcolizer products in a given industry testing environment
3. Certified training where users of Alcolizer product require evidence of a high-level of competency with a certified level of attainment from a Registered Training Organisation.

For further information on Training from Alcolizer contact your Alcolizer representative or email training@alcolizer.com

END OF DOCUMENT

24 Appendices

24.1 Annex A – Bluetooth Troubleshooting

Quick Fix Guide: Resolving Stale Bonding Issues between Tablet, App, and Alcolizer Bluetooth Device

Introduction:

Stale bonding issues can occur when there is a disruption in the Bluetooth communication between your tablet (or other device), the app hosted on it, and a third-party device you are trying to connect to. This guide provides steps to troubleshoot and resolve these problems, ensuring a seamless Bluetooth connection.

What is Stale Bonding?

Stale bonding is not an uncommon Bluetooth condition and refers to a situation where a previously established Bluetooth connection between devices becomes inactive or "stale." This can result in difficulties re-establishing a stable and secure connection between devices, leading to communication problems and disruptions in functionality.

Step-by-Step Quick Fix Guide:

Step 1: Check Device Compatibility:

Ensure that nothing has changed and that the tablet, the app, and the Alcolizer device are all compatible with each other's Bluetooth protocols and specifications. Outdated or incompatible devices may lead to bonding issues.

Step 2: Turn Bluetooth Off and On:

- On your tablet, access the Settings menu.
- Locate and tap on "Bluetooth" to toggle it off.
- Wait for a few seconds and then toggle Bluetooth back on.

Step 3: Forget and Re-pair the Device (from the Tablet and Device):

- From the Tablet:
  - Access the tablet's Bluetooth settings.
  - Locate the entry for the third-party device that you're experiencing bonding issues with.
  - Tap on the device's name and select "Forget" or "Unpair."
  - Restart both your tablet and the third-party device.
  - Re-pair the devices by following the initial pairing steps provided by Alcolizer.
- From the Device:
  - Access the device (Druglizer) configuration menu to forget the BT connection: > Configuration > AlcoConnect > Forget

- For LE5 Breathalyser you will need to access the 5000 menu (see user manual)
- Restart both your tablet and the third-party device.
- Re-pair the devices by following the initial pairing steps provided by Alcolizer.

(note: Users may wish to perform both steps in parallel)

The following steps are more aggressive in nature and will clear cached memory so should only be undertaken by skilled IT professionals and/or under support/supervision of a competent IT person.

Step 4: Clear App Cache and Data:

- On your tablet, navigate to the "Settings" menu.
- Locate and select "Apps" or "App Manager."
- Find the app associated with the Alcolizer device.
- Tap on the app and select "Storage."
- Choose "Clear Cache" and "Clear Data."
- Restart your tablet and launch the app again.

Step 6: Reset Network Settings:

- On your tablet, navigate to the "Settings" menu.
- Select "System" or "General Management."
- Choose "Reset" or "Reset Options."
- Select "Reset Network Settings."
- Confirm the reset and allow your tablet to restart.

Step 7: Update App and OS:

- Open the app store on your tablet (e.g., Google Play Store or Apple App Store).
- Check if there are any updates available for the app you're using.
- Update the app to the latest version.
- Similarly, ensure that your tablet's operating system is up-to-date by checking for system updates in the device's settings.

Step 8: Contact Support:

- If the issue persists after following the above steps, it's advisable to contact your I.T. Department for assistance who may escalate to Alcolizer support who can provide further assistance and troubleshooting tailored to your specific situation.

Conclusion:

By following these steps, you can troubleshoot and resolve stale bonding issues between your tablet, the app hosted on it, and a third-party device. These actions help ensure a stable and reliable Bluetooth connection, enabling you to fully utilize the capabilities of your devices and maintain smooth communication.