Unlock the Power of Alcohol Testing

PHOENIX 6.0BT
Operations Manual
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**LifeLoc Phoenix 6.0BT**  
www.Lifeloc.com  |  303-431-9500

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To the Phoenix 6.0BT Portable Breath Tester Operator:

Welcome!

The Phoenix 6.0BT (Bluetooth) breath alcohol analyzer is manufactured in Wheat Ridge, Colorado, by Lifeloc Technologies, Inc. Lifeloc has provided advanced alcohol testing equipment and training for over 25 years, serving the Department of Transportation (DOT)/Workplace market.

Lifeloc offers premium quality products combined with exceptional service and technical support!

The Phoenix 6.0BT employs numerous cutting edge technologies:

- Secure wireless printing and keyboard entry for unsurpassed test and collection mobility.
- EasyMode Software provides error free testing by walking you through DOT testing protocol.
- The breath stream is monitored electronically and the pump automatically triggers to ensure an ideal deep lung sample.
- Audible signals alert the operator to ensure efficient, compliant testing.
- PermAffix Labeling System provides self adhesive, tamper-evident labels that are sized to fit DOT Testing Forms. No need for security tape.
- Operator selected calibration and external calibration check lockout periods ensure the Phoenix 6.0BT is maintained according to DOT regulations and the Lifeloc QAP.

The operator should become familiar with the specifications and directions for proper use of the Phoenix 6.0BT detailed in this manual and in the Lifeloc Quality Assurance Plan (QAP).

Unlock the Power of Alcohol Testing
Quality Assurance Program for Lifeloc’s Phoenix 6.0BT

October 18, 2010

Scope and Purposes
To provide standards which will ensure proper use and performance of the Phoenix 6.0BT Portable Breath Analyzer in conformance with the U.S. Department of Transportation Regulations and the procedure for conducting alcohol testing as set forth in 49 CFR, Part 40.

General
For information regarding operation of the Phoenix 6.0BT and detailed calibration instructions, please refer to the operations manual supplied with each instrument.

Operating Environment
The Phoenix 6.0BT is designed to be used in the temperature range of 0°C to 40°C.

External Calibration Checks (Cal Checks)
1) Cal Checks must be performed by an operator utilizing dry gas or a wet bath simulator included on the NHTSA Conforming Products List of Calibration Units for Breath Alcohol Instruments and alcohol standards approved by Lifeloc Technologies, Inc.

2) A Cal Check should be conducted every thirty (30) days as specified by NHTSA guidelines.

3) Lifeloc recommends performing a Cal Check as soon as conveniently possible after a positive confirmation alcohol test as defined by user policy and DOT regulations. This prevents an out-of-calibration unit from compromising more than one positive result.

4) A Cal Check must be performed if the unit has undergone repair.

5) The Phoenix 6.0BT can use most common alcohol standards for Cal Checks including but not limited to .040, .080, and .100 BAC but Lifeloc recommends using a .040 BAC standard when the instrument is used for DOT testing. Please refer to the operations manual for specific information regarding selecting standards. Lifeloc Technologies requires that standards used in Cal Checks be accurate to +/- .002 BAC.

Tolerances
Cal Checks are acceptable if the tests are conducted in accordance with the Phoenix 6.0BT operations manual and are within +/- .005 BAC of the value of the alcohol standard utilized.

Calibration
1) Calibrations must be performed by a Lifeloc Certified Calibration Technician utilizing dry gas or a wet bath simulator included on the NHTSA Conforming Products List of Calibrating Units for Breath Alcohol Instruments and alcohol standards approved by Lifeloc Technologies, Inc.
2) The Phoenix 6.0BT must be calibrated every 12 months or when the instrument fails one Cal Check (External Calibration Checks).

3) The Phoenix 6.0BT can use most common alcohol standards for calibration including but not limited to .040, .080, and .100 BAC but Lifeloc recommends using a .040 BAC standard when the instrument is used for DOT testing. Please refer to the operations manual for specific information regarding selecting standards. Lifeloc Technologies requires that standards used in calibration be accurate to +/- .002 BAC.

Mouthpieces
Direct tests utilizing the Phoenix 6.0BT should only be conducted with mouthpieces approved by Lifeloc.

Inspection
1) The Phoenix 6.0BT automatically conducts a diagnostic check of the electronic hardware and software system each time the instrument is turned on.

2) The operator will perform a visual physical inspection of the instrument before using to ensure that it has not sustained physical damage.

3) It is recommended that the Phoenix 6.0BT be returned to the factory or an authorized service center once every two years for a complete evaluation.

Conditions that necessitate removing a Phoenix 6.0BT from service
1) In the event that the Phoenix 6.0BT fails its diagnostic check it is to be removed from service and the operations manual consulted for further instructions.

2) Failure of one Cal Check will require removal from service and calibration of the unit.

3) If the Phoenix 6.0BT required calibration three times in three successive months.

4) In addition, there are user prompts which would necessitate removal of the Phoenix 6.0BT from service. Consult your operations manual for a complete listing of Phoenix 6.0BT user prompts and instructions for each.

Maintenance
Routine maintenance procedures are specified in the Phoenix 6.0BT operations manual. Repairs should be performed by personnel or persons trained and/or authorized by Lifeloc Technologies, Inc.

The QAP is Lifeloc’s Quality Assurance Plan, which has received approval by the US Department of Transportation (DOT). The terms of the QAP are enforced under DOT regulations.
Phoenix 6.0BT Front View

- **Large Graphic LCD Screen**
  - displays functions and results

- **Battery Icon**
  - indicates battery level

- **Mouthpiece**
  - Attachment Loop

- **Function Button**
  - scrolls through menus and saves changes

- **TIME**
  - set calibration standard

- **Bluetooth Status Indicator**
  - Execute Button
  - enables you to perform the function

- ** +/- Buttons**
  - set calibration standard

- **Power Button**
  - turns unit on and off; also returns you to main testing mode without saving changes

- **Wrist Strap Attachment Loop**
  - Mouthpiece Removal Tab

- **Wrist Strap**
  - Attachment Loop

- **Mouthpiece Removal Tab**
  - Battery Icon
  - indicates battery level

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- **Wrist Strap Attachment Loop**
  - Mouthpiece Removal Tab
Standard Features

**EasyMode™**: DOT-compliant protocol that “walks” the operator through DOT testing procedures in an easy step-by-step manner.

**Bluetooth Connectivity**: Provides users with true testing mobility.

**Automatic Altitude Compensation**: Automatically adjusts for barometric pressure during dry gas calibration and calibration check.

**PermAffix™ Labeling System**: Unique tamper-evident labels that adhere to DOT forms.

**Automated Calibration**: Software-controlled adjustments; no screwdriver or tools necessary.

**Calibration Reminder with Lockout**: Prevents you from using the Phoenix 6.0BT when it is overdue for calibration.

**Auto Test**: The easiest way to take a test. Tester automatically takes deep lung sample when subject is at end of breath.

**Large Graphic Display**: Capable of showing numbers, letters, icons and plain English text messages.

**Wireless Printing and Keyboard Entry**: Bluetooth wireless printer and keyboard with up to 33’ range.

**Real-Time Clock**: Stores time and date information with each test.

**On-Board Memory**: Stores the last 250 test results as well as calibration and cal check results.

**Adjustable Auto Shut-Off**: Preserves battery life.

**Data Entry**: Capable of storing up to 6 separate, customizable data fields.

**Fast, Simple Operation**: While the Phoenix contains a host of features, it is still easy to use.

**User-Selectable Test Order**: Allows choice of EasyMode, Auto Test or Passive Test mode.

**Printout Options**: Print test results with or without current calibration data.

**Printer Ready**: Print out any or all results using Lifeloc printers or a PC with optional DataTrak™ Software.

**Auto Air Blank**: For DOT compliance, unit checks air prior to testing to ensure no ambient alcohol interferes with test.
Installing Batteries
Press in and down on the battery door located on the back of the Phoenix 6.0BT in the direction of the arrow.

Install the four AA alkaline or NiMH rechargeable batteries in the direction of the symbols in the battery case.

Close the case by pushing up on the battery door until it locks shut.

Attaching a Mouthpiece
Remove the mouthpiece from its wrapper, making sure not to touch the end which the subject will be blowing into.

Attach the mouthpiece to the port on the back of the Phoenix 6.0BT.

Line up the mouthpiece port over the hole in the back of the mouthpiece. Press in place.

Ensure it is securely attached.

Please note, a new mouthpiece is required for each test.
Turning the Phoenix 6.0BT On & Off

To turn the unit on, press and hold the Power button on the bottom of the unit until an ascending beep is heard. The Phoenix 6.0BT performs automatic internal diagnostics.

To turn the unit off, press and hold the Power button until it beeps twice. The unit will shut down.

Momentarily pressing the Power button, when the unit is on, returns you to the main menu.

**Note:** Momentarily pressing the Power button will return you to main menu; however, it will not save any changes you made unless you press the Function button first.

Observing the Subject

The Phoenix 6.0BT provides a highly accurate reading of breath alcohol acquired by sampling deep lung air. However, the reading can be corrupted by residual mouth alcohol.

To prevent mouth alcohol from affecting a test, make certain that the subject is not allowed to put anything in their mouth for the 15 minutes prior to taking a test. This will ensure all residual alcohol from any source is completely dissipated and test results will be accurate.
Breath Flow

As the subject blows into the mouthpiece, the Phoenix 6.0BT will show a graph of the breath flow on the display.

Alcohol Curve

If the Phoenix 6.0BT detects alcohol after the sample has been taken, the alcohol level is graphed and will be displayed before the result.

Test Result

If the Phoenix 6.0BT detects alcohol after the sample has been taken, the alcohol level is graphed and will be displayed before the result.

The result will remain on the screen for 60 seconds or until the Function or Power button is pressed, or the test is printed.
Removing the Mouthpiece

Remove the mouthpiece by pushing against the tab located to the right of the screen display.

Viewing Previous Test Results

Press the **Function** button repeatedly until the printer icon is displayed. The results of the last test will be displayed along with its test number at the lower left of the display.

The Phoenix 6.0BT retains up to 250 tests along with all related data in memory.

Press the **+** or **-** buttons to view previous tests.

Momentarily press **Power** to return to the testing mode.

Printer Connection Types

**Via Wireless Bluetooth Connection** - Phoenix 6.0BT and Lifeloc Bluetooth Wireless Printer have encrypted data transmission within 33'.

**Via Cable Connection (Thermal)** - Connect the Phoenix 6.0BT to the printer using the cable.

Printing Test Results

**Printing the Current Test**

Press the **Execute** button under the printer icon to print.

**Printing a Specific Test**

Press the **Function** button repeatedly until the printer icon is displayed.

Press the **+** or **-** button to select the test number you wish to print.

Press the **Execute** button under the printer icon to print.

**Printing All Stored Tests** *Caution: This will print all tests in memory per the quantity and Long or Short format, as selected in Print Settings.*

Press the **Function** button repeatedly until the printer icon is displayed.

Press the **+** button once to select “ALL”.

Press the **Execute** button under the printer icon to print.
Breath Testing Modes

**Printing Calibration and Cal Check Data**

Immediately after conducting a Calibration Check, press the *Execute* button below the printer icon to print your results.

- or -

Press the *Function* button repeatedly until the printer icon is displayed.
Press the + button twice to select “Cal/Cal Chk”.
Press the *Execute* button under the printer icon to print.

**Breath Testing Modes Explained**

**Automatic Test** is the easiest to use and is most reflective of a deep lung sample. The Phoenix 6.0BT monitors the subject’s breath and automatically takes the sample near the end of the breath flow.

**Manual Test** is normally used when the subject is unable to provide a sufficient air sample for the automatic test.

**Passive Test** is a quick screen to detect alcohol but is not designed to quantify the results. Passive results are reported as POS if alcohol is detected, NEG if alcohol is not detected. In this mode, no mouthpiece is required.

**Note:** the DOT does not allow passive testing to be used for evidential purposes.

**Conducting an Automatic Test**

Turn the Phoenix 6.0BT on.

Attach a mouthpiece to the back of the unit.

If Variable Data is enabled: Enter the data requested or press the *Function* button to continue without entering data (see page 25).

Verify the display reads “Air Blank”. Press the *Execute* button. An air blank sample will be taken. If the result is “.000 BAC”, unit will automatically advance to Auto Test.

Verify the display reads “Auto Test” followed by the test number.

Instruct subject to blow into the mouthpiece *firmly and steadily for as long as they can* (not necessarily as hard as they can).

Read the result.

**Notes and DOT Compliance**

- The Phoenix 6.0BT automatically stores the Breath Alcohol Content (BAC), test number, date, time, Data (if entered), unit serial number, and the most recent calibration and calibration check information for all tests.
- The Phoenix 6.0BT stores 250 test results.
- The stored test results can be printed any number of times until the memory is cleared.
- All test results can be printed at once, or any single test result can be selected for printout.
Manually Overriding an Automatic Test

Note: This feature allows the completion of a test in the occasional instance the subject may have diminished lung capacity and cannot activate the Auto Test.

Turn the Phoenix 6.0BT on.

Attach a mouthpiece to the back of the unit.

If Variable Data is enabled, enter the data or press the Function button to continue without entering data. (see page 25).

Verify the display reads “Air Blank”. Press the Execute button. An air blank sample will be taken. If the result is “.000 BAC”, unit will automatically advance to Auto Test.

Verify the display reads ”Auto Test” followed by the test number.

Instruct the subject to blow into the mouthpiece firmly and steadily for as long as they can (not necessarily as hard as they can).

When they are near the end of their breath, press the Execute button.

Read the result.

Notes and DOT Compliance

• During an Automatic test, the Phoenix 6.0BT automatically recognizes deep lung air and triggers the pump to take the breath sample.

• This test mode is the most commonly used and is the easiest to perform.

• After the test is complete, print the results (See p. 13).

• Fill in Step 3 of the DOT form.

• If the test is positive, have the Employee sign Step 4 of the DOT form.

• Attach the printout(s) to the to the DOT form.

• White Copy – Company
  Green Copy – Employee
  Blue Copy – BAT
Conducting a Manual Test

Turn the Phoenix 6.0BT on.

Attach a mouthpiece to the back of the unit.

If Variable Data is enabled, enter the data. or press the Function button to continue without entering data. (see page 25).

Verify the display reads “Air Blank”. Press the Execute button. An air blank sample will be taken. If the result is “.000 BAC”, unit will automatically advance to Auto Test.

Press the Function button once. The display reads “Manual Test”.

Instruct the subject to blow into the mouthpiece firmly and steadily for as long as they can (not necessarily as hard as they can).

When they are near the end of their breath, press the Execute button.

Read the result.

Please note: manual test mode is pressure activated. If the subject does not blow air into the mouthpiece, the test can not be conducted.

Notes and DOT Compliance

• During a Manual test, the Operator must recognize deep lung air and trigger the pump to take the breath sample.

• This test mode is used for subjects who cannot provide a large enough breath sample, such as elderly people or asthmatics.

• After the test is complete, print the results (See p. 13).

• Fill in Step 3 of the DOT form.

• If the test is positive, have the Employee sign Step 4 of the DOT form.

• Attach the printout to the front of the DOT form.

• White Copy – Company
  Green Copy – Employee
  Blue Copy – BAT
EasyMode Explained

EasyMode is a DOT-compliant protocol that “walks” the operator through step-by-step DOT testing procedures as outlined in 49 CFR part 40.

EasyMode takes the subject’s first sample as a Screening Test. If the result is equal to or exceeds .020 BAC, the Phoenix will wait 15 minutes, then request the same person to provide another sample as a Confirmation Test. (See below)

**Note:** EasyMode is a user-defined setting. Once the Phoenix 6.0BT is set to EasyMode, all tests will be performed as such until the EasyMode setting is turned off. The .020 BAC level is defined by the DOT. It can be changed to another level in the Settings menu if your testing plan requires a different threshold.

See page 21 for information on turning EasyMode on or off.

Conducting a Test in EasyMode

Turn the Phoenix 6.0BT on.

If Variable Data is enabled, enter the data or press the Function button to continue without entering data (See page 25).

**Screening Test**

Attach a new mouthpiece to the Phoenix 6.0BT.

The display shows “Air Blank,” the test number and time.

Press the Execute button to take the Air Blank. After the Air Blank is taken, the results will be displayed for five seconds. The unit will progress to Auto Test and when you hear a confirming two beeps the unit is ready to take the test.

Instruct the subject to blow into the mouthpiece firmly and steadily for as long as they can (not necessarily as hard as they can).

The result is displayed on the screen. Press the Execute button to print the test results or press the Function button to continue without printing. If no printer is connected and no buttons are pressed after 60 seconds, the unit will continue to a countdown for confirmation test or return to the beginning of EasyMode requesting an Air Blank.

**Confirmation Test**

If the screening test result is > .020 (or other level as defined in the EasyMode Settings), an audible tone alerts you that the confirmation test is being selected automatically. The unit will enter a 15 minute waiting period, as required by DOT, before the confirmation test is performed.
During this period, all buttons, except the **Power** button, will be disabled. The display will count down the remaining time of the 15 minute waiting period.

Attach a new mouthpiece to the Phoenix 6.0BT.

The unit will beep 30 seconds before the end of the 15 minute waiting period.

At the end of the 15 minute period, the Phoenix 6.0BT will automatically take an Air Blank. Following a successful Air Blank the unit will display “Auto Test” and you will hear a confirming two beeps that the unit is ready to take the test. The test must be taken within two minutes of the Air Blank or the unit will require the Air Blank to be taken again. The test number and other data will be retained.

Instruct the subject to blow into the mouthpiece **firmly and steadily for as long as they can** (not necessarily as hard as they can).

The result is displayed on the screen. Press the **Execute** button to print the test results or press the **Function** button to continue without printing. If no printer is connected and no buttons are pressed after 60 seconds, the unit will return to the beginning of EasyMode requesting an Air Blank.

If the alcohol level of the confirmation test is > .020 (or other level as set in the EasyMode Settings), the unit will display “Cal Check Needed” followed by “Contact DER.” The unit will return to the beginning of EasyMode requesting an Air Blank. The Phoenix 6.0BT will continue to momentarily display “Cal Check Needed” when the unit is turned on until a calibration check is performed. **This Calibration Check is a QAP recommendation.**

## Canceling a Test in EasyMode

Momentarily press the **Power** button.

The unit will display “Quit Test?” Press the **Execute** button until “Yes” is displayed. Then press the **Function** button.

The unit will display “Select Reason.” Press the **Execute** button to select “Operator Terminated” (“Op Term” on printouts) or “Subject Refusal” (“Refused” on printouts). Then press the **Function** button.

The test is now canceled and you will return to the testing mode.

## Air Blank Failures in EasyMode

When in EasyMode, if the Phoenix 6.0BT detects alcohol in an Air Blank (test of the ambient air), the unit will display “Air Blank Failed” and wait one minute then automatically perform another Air Blank.
If the second Air Blank detects alcohol, the unit will display “Air Blank Failed” followed by “Aborted: 2 Air Blank Failures.” Press the Execute button to continue. The current test is aborted and the unit will return to “Air Blank.” The “Cal Check Needed” reminder will be displayed every time the unit is turned on until a Cal Check has been performed.

Note: If the unit fails two consecutive air blank tests, it is to be removed from service per DOT guidelines.

Notes - EasyMode

If you receive a “< 1.3L Retest or Try Manual Test” or “Flow Error Retry & Blow” during the Screening or Confirmation test, you can clear the prompt message by pressing the Function button.

Conducting a Passive Test (No Mouthpiece)

Turn the Phoenix 6.0BT on.

If Variable Data is enabled, enter the data or press the Function button to continue without entering data (see page 25).

Verify the display reads “Air Blank.” Press the Execute button. An air blank sample will be taken. If the result is “000 BAC,” unit will automatically advance to Auto Test.

Press the Function button until the display reads “Passive Test.”

Hold the Phoenix 6.0BT sample port (orange-colored opening labeled “Port” on the back of the Phoenix 6.0BT) about four inches from the subject’s mouth.

Have the subject blow toward the port.

Press the Execute button while the subject is blowing.

Read the result. (“POS” or “NEG”)

Notes and DOT Compliance

- Passive testing does not require the use of a mouthpiece. Therefore, the test is non-intrusive and does not require the cooperation of the subject.
- DOT does not allow passive testing to be used for evidential DOT breath testing purposes.
- Passive testing can be used for other applications, such as law enforcement, corrections, probation, and in educational settings (school and campus security).
Settings (see flow chart on page 55)

The Phoenix 6.0BT has numerous internal settings allowing you to customize the unit to your individual needs. The settings include the following:

**Easy Mode**
- On/Off
- Pos Level

**Time**

**Date**

**Auto Air Blank**

**Shut-Off Time** (1 – 30 minutes or “Off”)

**Data Entry**
- Enable Data Fields
- Field 1 - Field 6

**Trigger Mode**
- End of Breath
- Precise Volume

**Security**
- Password

**Printer**
- Printer selection (Bluetooth, Thermal, DataTrak™)
- Print Format (Short, Long or Special)
- Number of copies printed (1, 2, 3 or 4)

**Display**
- Contrast (0 - 10)
- Test Order (Auto-Man-Passive, Passive-Auto-Man, Auto-Man Only)
- Results Format (Numeric, PWF)
- Pass & Fail Level Settings

**Battery Type**
- Battery selection (Alkaline or NiMH)
Settings Screen

Turn the Phoenix 6.0BT on.

Press the **Function** button until display reads “SETTINGS”.

Press the **Execute** button. Display reads “EASYMODE”.

Pressing the **Function** button repeatedly scrolls through the Phoenix 6.0BT user settings.

**NOTE:** Pressing the **Power** button will return you to the main menu but will NOT save the changed settings. You must press the **Function** button to save any changed settings.

EasyMode Settings

Turn the Phoenix 6.0BT on.

Press the **Function** button until display reads “SETTINGS”.

Press the **Execute** button. Display reads “EASYMODE”.

Press the **Execute** button.

Press the **Execute** button to change EasyMode to “On” or “Off”. Once the desired selection is displayed, press the **Function** button to save.

“POS LEVEL” will be displayed. It is here where the Confirmation Test requirement level is set. (Default is .020) Press the + or - button to change the level. Press the **Function** button to save changes.

Press the **Execute** button to exit.
Changing the Time

Turn the Phoenix 6.0BT on.
Press the Function button until display reads “SETTINGS”.
Press the Execute button. Display reads “EASYMODE”.
Press the Function button once. The display will now read “TIME” with the hours digits flashing.
Press the + or − button to change the hour.
Press the Execute button to move to minutes.
Press the + or − button to change the minutes.
Press the Function button once to move to the next setting or repeatedly until the display reads “EXIT”.

Changing the Date

Turn the Phoenix 6.0BT on.
Press the Function button until display reads “SETTINGS”.
Press the Execute button. Display reads “EASYMODE”.
Press the Function button until the display reads “DATE”.
Press the + or − button to change the month.
Press the Execute button to move to the day setting.
Press the + or − button to change the day.
Press the Execute button to move to the year.
Press the + or − button to change the year.
Press the Function button once to move to the next setting or repeatedly until the display reads “EXIT”.

Notes and DOT Compliance

- The Phoenix 6.0BT has an internal clock that must be set to local time when you receive the unit.
- The clock must be set to the correct time in order to show the correct information on the printouts.
- The Phoenix 6.0BT displays a 24 hour clock.
- The Phoenix 6.0BT does not account for daylight saving time changes.
- The Phoenix 6.0BT internal clock adjusts itself for leap years.
Auto Air Blank Explained

When enabled, an automatic air blank function is performed in front of Auto, Manual and Passive tests.

An automatic air blank is a test of the ambient air. It checks to ensure that no alcohol is present, which could affect the test result.

When Auto Air Blank is enabled, the Phoenix 6.0BT will prompt you to take a sample before testing the subject.

Auto Air Blank is utilized to satisfy the requirements of the DOT testing protocol.

**NOTE:** In EasyMode, an Air Blank will be taken regardless of whether Auto Air Blank is set to on or off.

Setting the Auto Air Blank

Turn the Phoenix 6.0BT on.

Press the **Function** button until display reads “SETTINGS”.

Press the **Execute** button. Display reads “EASYMODE”.

Press the **Function** button until the display reads “AUTO AIR BLANK”.

Press the **Execute** button to change the air blank to “ON” or “OFF”.

Press the **Function** button once to move to the next setting or repeatedly until the display reads “EXIT”.

Setting the Auto Shutoff Time

Turn the Phoenix 6.0BT on.

Press the **Function** button until display reads “SETTINGS”.

Press the **Execute** button. Display reads “EASYMODE”.

Press the **Function** button until the display reads “SHUTOFF TIME”.

Press the **+ or –** button to adjust the shutoff time between 1-30 minutes or to disable auto shutoff by selecting “OFF”.

Press the **Function** button once to move to the next setting or repeatedly until the display reads “EXIT”.

Notes and DOT Compliance

- An air blank is a test of ambient air. It samples the surrounding air to ensure no alcohol is present in the vicinity of the subject being tested.
- An air blank is required before a DOT confirmation test.
- When the auto air blank is turned on, an air blank test will automatically be taken before an automatic, manual, or passive test is performed.
- The results of the air blank test will appear on the printout.
- The automatic shut-off can be turned “ON” or “OFF” by the operator. If the automatic shut-off feature is “ON,” the operator can select between 1 to 30 minutes for the shut-off period.
Data Entry Explained

The Phoenix 6.0BT allows you to enter and customize up to 6 separate lines of data. All data fields and I.D. labels are customizable for your individual testing needs.

The Static Fields remains the same once entered, until changed. If entered, it is stored and printed out with every test result.

The Variable Fields are unique to each test. If turned on, you will be prompted to enter new data every time you take a test. The variable fields will be stored and printed out with the test result.

Configuring Data Entry Fields

Turn the Phoenix 6.0BT on.

Press the Function button until display reads “SETTINGS”.

Press the Execute button. Display reads “EASYMODE”.

Press the Function button until the display reads “I.D. ENTRY”.

Press the Execute button to select “FIELD 1”, then press the Execute button once to enable the field.

Press the Function button once to determine if the field will be “Variable” or “Static”. Press the Execute button once to change.

Press the Function button to create a header label for your data.

   With the display reading “FIELD 1 LABEL” use the + or – button or keyboard to enter numbers/letters of the label.

   When using + or – button, pressing the Execute button to moves you to the next digit. Up to 24 characters may be entered.

Press Function to save.

If “STATIC” is selected, data must be entered at this time.

With the display reading “FIELD 1 DATA” use the + or – button or keyboard to enter numbers/letters of the data to be printed with each test.

   Press the Function button once to move to the next I.D. field and repeat above instructions or repeatedly until the display reads “EXIT.”

If “VARIABLE” fields are enabled, the Phoenix 6.0BT will prompt you to enter data before every test.
Entering Variable Data

If “VARIABLE” fields are turned on, the Phoenix 6.0BT will prompt you to enter new data before every test.

Using the + or – button or keyboard, you can enter numbers/letters. Up to 24 characters may be entered.

When using + or – buttons, pressing the Execute button moves you to the next digit. To scroll quickly, hold down the buttons.

Press the Function button to proceed to take a test. The Variable data will be stored and printed with the next test taken.

To bypass entering Variable data, simply press the Function button and take a test.

Using the Bluetooth Keyboard (optional feature)

The 6.0BT allows for data input using an optional bluetooth keyboard. If you purchase the keyboard option, you can easily input text or numbers in Data Fields or have full command of the 6.0BT menu.

Navigation Instructions

Space or Tab = Function Button
Enter = Execute Button
Right Arrow = + Button
Left Arrow = - Button
Escape = Power Button

Please note: The keyboard must be turned on prior to powering on your 6.0BT.

To learn more about Lifeloc’s data management solutions, please contact sales@lifeloc.com or 1.800.722.4872.

Trigger Mode

Turn the Phoenix 6.0BT on.

Press the Function button until display reads “SETTINGS”.
Press the Execute button. Display reads “EASYMODE”.
Press the Function button until the display reads “TRIGGER MODE”.
Press the Execute button to select between “END OF BREATH” and “PRECISE VOLUME”.
Press the Function button once to move to the next setting or repeatedly until the display reads “EXIT”.

Note: DOT testing typically uses “END OF BREATH”.

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Security

Note: When setting a password, please record it and keep it in a safe place. Lifeloc does not have access to your password. If your password is lost or forgotten, the only way to reset the unit is to call Lifeloc at 800-722-4872.

When Security is enabled, the following can be performed without a password: tests, turn EasyMode on/off, clear the test log, perform a Cal Check, change battery type, change display contrast, access status menu and print. The password must be entered to change all other settings and to calibrate. Once the password is entered, you do not have to enter it again until the power is cycled.

To Enable Security and Set Password

Turn the Phoenix 6.0BT on.

Press the Function button until display reads “SETTINGS”.

Press the Execute button. Display reads “EASYMODE”.

Press the Function button until the display reads “SECURITY”.

Press the Execute button to enter security. The display reads, “PASSWORD”.

Use the + or - button to enter numbers/letters of your password (hold down to scroll quickly).

Press the Execute button to move to the next digit. Up to eight characters may be entered. When you have completed entry of your chosen password, press the Function button to save the password and move to “EXIT”.

Press the Execute button to exit Security.

When Security is enabled, the unit will request a password to change settings and to calibrate. Use the + or - button to enter numbers/letters of your password (hold down to scroll quickly). Press the Execute button to move to the next digit. After entering the password, press the Function button to proceed.

To Disable Security

Turn the Phoenix 6.0BT on.

Press the Function button until display reads “SETTINGS”.

Press the Execute button. Display reads “EASYMODE”.

Press the Function button until the display reads “PASSWORD”.

Use the + or - button to enter the numbers/letters of your password (hold down to scroll quickly).

Press the Execute button to move to the next digit.
Press the **Function** button to enter the password and proceed.

Press the **Function** button until the display reads “SECURITY”.

Press the **Execute** button to enter security. The display should read “PASSWORD” with the current password displayed.

Use the + or – button to remove the numbers/letters of your password (hold down to scroll quickly).

Press the **Execute** button to move to the next digit. When all spaces are blank, press the **Function** button to save the password and move to “EXIT”. (Removing all characters in the “PASSWORD” screen disables Security.)

Press the **Execute** button to exit Security.

---

**Print Settings Explained**

The Phoenix 6.0BT settings allow you to customize your printout to your particular needs. You can choose between the following:

**Printer** - Select between Bluetooth, Thermal, or DataTrak™ to print your results.

**Print Format** - Choose to include or not to include additional data fields or the calibration and calibration check information with every printout by selecting the long, short or special format.

**Number of Copies** - Choose to print 1, 2, 3 or 4 copies of a test when you print.

---

**Printer Selection**

Printer selection allows you to select the device your Phoenix 6.0BT will print to.

Turn the Phoenix 6.0BT on.

Press the **Function** button until display reads “SETTINGS”.

Press the **Execute** button. Display reads “EASYMODE”.

Press the **Function** button until the display reads “PRINTER”.

Press the **Execute** button, display reads “PRINTER”.

Press the **Execute** button to change the printer to Bluetooth, Thermal, or DataTrak™.

Press the **Function** button once to move to the next setting or repeatedly until the display reads “EXIT”.

---
Print Format

Turn the Phoenix 6.0BT on.

Press the **Function** button until display reads “SETTINGS”.

Press the **Execute** button. Display reads “EASYMODE”.

Press the **Function** button until the display reads “PRINTER”.

Press the **Execute** button, display reads “PRINTER”.

Press the **Function** button until the display reads “PRINT FORMAT”.

Press the **Execute** button to select “Long”, “Short” or “Speical” printouts. If the Bluetooth label printer is selected, you have a choice of “Long Label”, “Short Label” or “Special Label”.

Press the **Function** button once to move to the next setting or repeatedly until the display reads “EXIT”.

**Number of Copies Printed**

Turn the Phoenix 6.0BT on.

Press the **Function** button until display reads “SETTINGS”.

Press the **Execute** button. Display reads “EASYMODE”.

Press the **Function** button until the display reads “PRINTER”.

Press the **Execute** button, display reads “PRINTER”.

Press the **Function** button until the display reads “PRINT COPIES”.

Press the + or - button to change the number of copies printed to 1, 2, 3 or 4.

Press the **Function** button once to move to the next setting or repeatedly until the display reads “EXIT”.

Print Darkness

Turn the Phoenix 6.0BT on.

Press the **Function** button until display reads “SETTINGS.”

Press the **Execute** button. Display reads “EASYMODE.”

Press the **Function** button until the display reads “PRINTER.”

Press the **Execute** button, display reads “PRINTER.”

Press the **Function** button until display reads “PRINT DARKNESS.”

Press **Execute** to change between Light, Medium and Dark.

Press the **Function** button. Display reads “EXIT.”
Display Contrast

Turn the Phoenix 6.0BT on.

Press the **Function** button until display reads “SETTINGS”.

Press the **Execute** button. Display reads “EASYMODE”.

Press the **Function** button until the display reads “DISPLAY”.

Press the **Execute** button. Display reads “CONTRAST”.

Press the + or - button to set the contrast to the desired level (0-10).

Press the **Function** button once to move to the next setting or repeatedly until the display reads “EXIT”.

Test Order Sequence

Turn the Phoenix 6.0BT on.

Press the **Function** button until display reads “SETTINGS”.

Press the **Execute** button. Display reads “EASYMODE”.

Press the **Function** button until the display reads “DISPLAY”.

Press the **Execute** button. Display reads “CONTRAST”.

Press the **Function** button until the display reads “TEST ORDER”.

Press the **Execute** button to choose between Test Order 1, 2, or 3 below as your default.

<table>
<thead>
<tr>
<th>Test Order 1 (Default)</th>
<th>Test Order 2</th>
<th>Test Order 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Test</td>
<td>Passive Test</td>
<td>Auto</td>
</tr>
<tr>
<td>Manual Test</td>
<td>Auto Test</td>
<td>Manual</td>
</tr>
<tr>
<td>Passive Test</td>
<td>Manual Test</td>
<td></td>
</tr>
</tbody>
</table>

Press the **Function** button once to move to the next setting or repeatedly until the display reads “EXIT”.

*Note: By selecting Test Order 3 you will disable Passive Testing.*

*Note: Passive Testing is disabled in EasyMode.*
Results Format Explained

The Phoenix 6.0BT displays Auto Test and Manual Test results in a three digit BAC format. Passive Test results are displayed as “POS” or “NEG.”

If, however, you are simply trying to qualify whether the subject is within set limits, you may not need a quantitative result, especially if the user is not trained in understanding BAC levels.

In this instance, you may choose to have the Phoenix 6.0BT display the results as PASS, WARN, or FAIL (PWF mode).

NOTE: The DOT does not allow Pass/Warn/Fail testing to be used for evidential purposes.

For example, if Pass is set at .040 and Fail is set at .080 (default settings on your Phoenix 6.0BT), then:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass</td>
<td>.000 - .040</td>
</tr>
<tr>
<td>Warn</td>
<td>.041 - .079</td>
</tr>
<tr>
<td>Fail</td>
<td>.080 and above</td>
</tr>
</tbody>
</table>

Sample settings only. See page 31 for instructions on setting the Pass/Warn/Fail levels.

Setting Results Format (Numeric or Pass/Warn/Fail)

Turn the Phoenix 6.0BT on.

Press the **Function** button until display reads “SETTINGS”.

Press the **Execute** button. Display reads “EASYMODE”.

Press the **Function** button until the display reads “DISPLAY”.

Press the **Execute** button. Display reads “CONTRAST”.

Press the **Function** button repeatedly until the display reads “RESULTS FORMAT”.

Press the **Execute** button to toggle between “Numeric” and “PWF”.

Press the **Function** button once to move to the next setting or repeatedly until the display reads “EXIT”.

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Setting the Pass/Warn/Fail Levels

Turn the Phoenix 6.0BT on.

Press the **Function** button until display reads “SETTINGS”.

Press the **Execute** button. Display reads “EASYMODE”.

Press the **Function** button until the display reads “DISPLAY”.

Press the **Execute** button. Display reads “CONTRAST”.

Press the **Function** button until display reads “PASS LEVEL”.

Press the + or – button to set the BAC Pass level.

Press the **Function** button. Display reads “FAIL LEVEL”.

Press the + or – button to set the BAC Fail level.

Press the **Function** button to save your settings.

Momentarily press **Power** to return to the testing mode.

**Note:** An alcohol reading between the PASS and FAIL levels will read WARN.

Battery Type

Your Phoenix 6.0BT default setting is for four AA batteries. However, you do have the ability to use NiMH rechargeable batteries as well.

To use NiMH, insert the batteries as directed and power on the unit.

Press the **Function** button until the display reads “SETTINGS”.

Press the **Execute** button. Display shows “EASY MODE”.

Press the **Function** button until the display shows “BATTERY TYPE”.

Press the **Execute** button to change your battery settings.

Press the **Function** button to save your settings.

Momentarily press the **Power** button to return to the testing mode.

The four batteries in your Phoenix 6.0BT should last for about 70 hours of “on” time or up to 2,600 tests. It is recommended you use high-quality alkaline batteries with your unit.

**Notes and DOT Compliance**

- The Phoenix 6.0BT can NOT be used in Pass, Warn, Fail mode for any DOT breath testing activities.
- The P/W/F mode is useful when testing for the presence of alcohol, such as underage drinking or work release applications.
- The WARN level is any reading between the PASS and FAIL level.
- The Pass and Fail levels are selected by the Operator. The Warn level will automatically be the range between the PASS and FAIL levels.
Bluetooth Settings

Through the Bluetooth Settings menu, your Phoenix 6.0BT will allow you to view your selected device as well as change or discover other Lifeloc Bluetooth devices.

View Current Selected Device

Press the Function button until display reads “BLUETOOTH”.

Press the Execute button. Display reads “BLUETOOTH SETTINGS” along with a list of Bluetooth device options.

Press the Execute button to select your device type, then press Function to enter the device menu.

Current device is displayed.

Changing Selected Printer

Press the Function button until display reads “BLUETOOTH”.

Press the Execute button. Display reads “BLUETOOTH SETTINGS” along with a list of Bluetooth device options.

Press the Execute button to select your device type, then press Function to enter the device menu.

Press the Execute button to change your device, then wait while the Phoenix 6.0BT scans for other devices. Make sure your Bluetooth device is on.

Note: All Lifeloc Bluetooth devices have a unique ID. The ID for the Lifeloc Bluetooth Mobile printer is featured on the left side of the device under the barcode.

Press the + or – button or keyboard to scroll through the list of discoverable devices.

Press the Execute button to select your device.

Press the Function button once to save and the display will read “EXIT”.
**Changing Selected Keyboard**

Power off your Keyboard and move the Pairing Switch to HID, then power your keyboard back on. Follow the Bluetooth steps on page 32 and once you see the current device displayed:

Press the **Execute** button to change your device and wait while the 6.0BT scans for devices.

*Note: All Lifeloc Bluetooth devices have a unique ID. The ID for the Lifeloc keyboard ID is featured on top left side of the keyboard.*

Press the + or – button to scroll through the list of discoverable devices.

Once you have located your device, power the keyboard off. Using the Pairing Switch, go back to SPP and turn keyboard back on

Press the **Execute** button to select your device.

Press the **Function** button once to save and the display will read “Exit”.

**Software Version**

Press the **Function** button until display reads “STATUS”.

Press the **Execute** button. The software version will be displayed.

Press the **Function** button once to move to the next status or repeatedly until the display reads “EXIT”.

*NOTE: Your unit will be updated to the current software configuration when it is sent to Lifeloc for service or for a routine Factory Diagnostic Check.*

**Test Log Status / Clear Log**

Press the **Function** button until display reads “STATUS”.

Press the **Execute** button.

Press the **Function** button until the display reads “TEST LOG”. This will also
display the number of tests remaining in memory.

Press the **Execute** button to advance to “CLEAR TEST LOG?”

Press the **Execute** button to toggle between “No” and “Yes”.

Press the **Function** button to save your selection.

If “YES” was selected, the display will confirm log has been cleared by momentarily displaying, “LOG CLEARED” and then will return to the “TEST LOG” display.

Press the **Function** button to move to the next status or repeatedly until the display reads “EXIT”.

---

**Battery**

Press the **Function** button until display reads “STATUS”.

Press the **Execute** button.

Press the **Function** button until the display reads “BATTERY”.

The battery status will be displayed.

Press the **Function** button once to move to the next status or repeatedly until the display reads “EXIT”.

---

**Unit Temperature**

Press the **Function** button until display reads “STATUS”.

Press the **Execute** button.

Press the **Function** button until the display reads “TEMPERATURE”.

The unit temperature will be displayed.

Press the **Function** button once to move to the next status or repeatedly until the display reads “EXIT”.

---

**Barometric Pressure**

Press the **Function** button until display reads “STATUS”.

Press the **Execute** button.

Press the **Function** button until the display reads “BARO PRESSURE”.

The barometric pressure will be displayed.

Press the **Function** button once to move to the next status or repeatedly until the display reads “EXIT”.

---
Calibration Explained

Calibration of the Phoenix 6.0BT compares its internal settings to a known alcohol standard, thereby providing it with the baseline from which it can accurately calculate the subject’s alcohol level.

There are two methods of Calibration:

**Wet Bath Calibration** - Involves a wet bath simulator and a certified alcohol solution, to set the baseline.

**Dry Gas Calibration** - Involves a certified dry gas canister to set the baseline.

You can use most available BAC levels of gas or solution to calibrate your Phoenix 6.0BT. The most commonly used solutions are: .040, .080, .100 BAC.

The Phoenix 6.0BT must be between 68° and 95° F to calibrate. (20° - 35° C)

Lifeloc recommends you calibrate your Phoenix 6.0BT:

- **Once** every 12 months, regardless of how many tests you have performed
- **Or**, after one failed Calibration Check
- **Or**, at intervals specified by your Internal Policies, Quality Assurance Plan, or State Regulations.

Calibration Check Explained

A Calibration Check simply verifies the Phoenix was calibrated correctly and is within the acceptable accuracy range. (Commonly called “External Calibration Check”, “Accuracy Check”, “Cal Check,” and “Verification”).

Lifeloc recommends you perform a calibration check on your Phoenix 6.0BT:

- **After** a positive confirmation test.
- **Once** every 30 days;
- **Or**, at intervals specified by your Internal Policies, Quality Assurance Plan, or State Regulations.

A Calibration Check must be performed after each Calibration.

**Notes and DOT Compliance**

- Always ensure that you check, and set correctly, the setting for the alcohol standard in your Phoenix 6.0BT before calibrating. If set incorrectly, your calibration check and test results will be inaccurate.
- The Phoenix 6.0BT will store in memory the last calibration standard you set.
- You do not need to reset the calibration standard before performing an external calibration check.
- During a calibration, the Phoenix 6.0BT adjusts to the concentration of the alcohol standard.
- This standard is the ‘baseline’ that the Phoenix 6.0BT uses to measure against all samples (tests taken).
Setting the Calibration Standard

Press the **Function** button until the display reads “CALIBRATION”.

Press the **Execute** button. Display reads “WET CHECK” or “DRY CHECK”.

Press the **Function** button until the display reads “CAL SETTINGS”.

Press the **Execute** button. Display reads “CAL STANDARD”.

Use the + or - button to change the number to the BAC level of standard you will be calibrating to (it should be the same as on the bottle of certified solution or on your dry gas tank).

Press the **Function** button once to move to the next setting or repeatedly until the display reads “EXIT.”

Once you set the standard, you do not have to set it again unless you change to a different method of performing a calibration/calibration check.

---

Setting the Standard Type

Press the **Function** button until the display reads “CALIBRATION”.

Press the **Execute** button. Display reads “WET CHECK” or “DRY CHECK”.

Press the **Function** button until the display reads “CAL SETTINGS”.

Press the **Execute** button. Display reads “CAL STANDARD”.

Press the **Function** button. Display reads “STANDARD TYPE”.

Press the **Execute** button to choose between “DRY GAS” and “WET BATH”.

Press the **Function** button once to move to the next setting or repeatedly until the display reads “EXIT”.
Calibration/Cal Check Lock-Out Explained

The calibration/cal check lock-out allows you to prevent usage of your Phoenix 6.0BT if it is not calibrated or cal checked in a specified time period. Time can be registered as days or number of tests.

Beginning 48 hours or ten tests remaining before the specified lock-out, the unit will display “WARNING CAL EXPIRING”, “WARNING CHECK EXPIRING” or both.

When the time period has elapsed or the number of tests remaining is zero, the unit will display “CAL EXPIRED”, “CHECK EXPIRED” or both and not allow testing until it is calibrated and/or cal checked.

You can specify time periods up to 999 days or 65,535 tests between calibrations or cal checks. You can also disable the calibration/cal check lock-out feature. (See below)

Setting the Calibration Lock-Out

Press the Function button until the display reads “CALIBRATION”.

Press the Execute button. Display reads either “WET CHECK” or “DRY CHECK”.

Press the Function button until the display reads “CAL SETTINGS”.

Press the Execute button. Display reads “CAL STANDARD”.

Press the Function button until the display reads “CAL TIME”.

Press the Execute button to select “DAYS”, “TESTS” or “DAYS or TESTS”.

Press the Function button to save your setting.

Display will now read “CAL TIME” or “CAL NUM TESTS”.

Press the + or - button to set the number of days or tests between calibrations. The time starts counting from your last calibration date, not from the date you set it. Choosing “DISABLED” turns this setting off.

Press the Function button to save your setting.

Momentarily press Power to return to the testing mode.

Notes and DOT Compliance

- The Phoenix 6.0BT will start displaying a warning that the calibration (or cal check) period is about to expire, 48 hours before the deadline entered or 10 tests.
- If expired, the Phoenix 6.0BT will not perform a test until it has been calibrated or an external calibration check is performed (whichever is applicable).
- DOT regulations require the Phoenix 6.0BT to be calibrated at least every 365 days.
Dry Gas Calibration

Setting the Calibration Check Lock-Out

Press the **Function** button until the display reads “CALIBRATION”.

Press the **Execute** button. Display reads either “WET CHECK” or “DRY CHECK”.

Press the **Function** button until the display reads “CAL SETTNGS”.

Press the **Execute** button. Display reads “CAL STANDARD”.

Press the **Function** button until the display reads “CHECK TIME” or “CHECK NUM TESTS”.

Press the + or - button to set the number of days between calibration checks. The days start counting from your last calibration check date, not from the date you set it.

Press the **Function** button to save your settings.

Momentarily press **Power** to return to the testing mode.

Dry Gas Set-Up

Attach the regulator to the dry gas tank.

Attach the mouthpiece adapter to the outlet port on the regulator.

**Note:** Do not store the dry gas tank with the regulator attached. The regulator is not designed as the primary sealing mechanism and your dry gas may leak from the tank.

Notes and DOT Compliance

- Ensure the expiration date on the alcohol solution bottle or the dry gas tank is current.
Performing a Dry Gas Calibration

Prepare the dry gas tank according to its instructions on page 38.

Turn Phoenix 6.0BT on. Attach a mouthpiece to the back of the unit.

Press the **Function** button until display reads “CALIBRATION”.

Press the **Execute** button. Display reads “DRY CHECK”.

Press the **Function** button until display reads “DRY CALIBRATE”.

Verify the Calibration Standard is set to the concentration on the dry gas tank.

To select a new Calibration Standard, see page 36.

Attach the Phoenix 6.0BT mouthpiece to the regulator by sliding it over the mouthpiece adaptor, ensuring a snug fit.

Be prepared to press the **Gas Tank Regulator** button for up to 10 seconds.

**Start pressing** (gas flow will start)

- Press the **Execute** button on Phoenix 6.0BT to proceed and start a 3 second countdown.
- Press the **Execute** button again to take a sample.
- Continue holding the **Regulator** button for another 3 seconds.

**Stop pressing** (gas flow will stop)

---

**Notes and DOT Compliance**

- DOT regulations require the Phoenix 6.0BT operator perform an external calibration check every 30 days.
- DOT regulations require the Phoenix 6.0BT have an external calibration check after getting a positive confirmation test result.
- DOT regulations require the operator to be certified before they are able to perform calibrations.
- The Phoenix 6.0BT does NOT need to (and should not) be calibrated before every calibration check.
If successful, the display will read “CAL COMPLETE” and show the time.

If no alcohol is detected, display reads “INVALID CALIBRATION.” Please check gas level on your tank regulator and replace tank if empty. Repeat dry gas calibration instructions on page 39.

Disconnect the equipment and wait at least two minutes before conducting a Cal Check.

**Note:** Following calibration, a Cal Check is required before the unit allows you to conduct any tests.

(Calibration display flow chart is shown on p. 56)

---

**Performing a Dry Gas Calibration Check**

Prepare the dry gas tank according to its instructions on p. 38.

Turn Phoenix 6.0BT on. Attach a mouthpiece to the back of the unit.

Press the **Function** button until display reads “CALIBRATION”.

Press the **Execute** button. Display reads “DRY CHECK”.

Verify the Calibration Standard is set to the concentration on the dry gas tank.

To select a new Calibration Standard, see page 36.

Attach the Phoenix 6.0BT mouthpiece to the regulator by sliding it over the mouthpiece adapter, ensuring a snug fit.

Be prepared to press the **Gas Tank Regulator** button for up to 10 seconds.

**Start pressing** (gas flow will start)

- Press the **Execute** button on Phoenix 6.0BT to proceed and start a 3 second countdown.
- Press the **Execute** button again to take a sample.
- Continue holding the **Regulator** button for another 3 seconds.

**Stop pressing** (gas flow will stop)

---

**Notes and DOT Compliance**

- DOT regulations require the Phoenix 6.0BT operator perform an external calibration check every 30 days.
- DOT regulations require the Phoenix 6.0BT have an external calibration check after getting a positive confirmation test result.
- DOT regulations require the operator to be certified before they are able to perform calibrations.
- The Phoenix 6.0BT does NOT need to (and should not) be calibrated before every calibration check.
The result and time are displayed. The result should be within +/- .005 BAC of the calibration standard used.

To print your results, make sure your Bluetooth printer is on and press the **Execute** button.

If no alcohol is detected, display reads “INVALID CHECK.” Please check gas level on your tank regulator and replace tank if empty. Repeat dry gas calibration check instructions above.

*(Calibration display flow chart is shown on p. 56)*

**Simulator Set-up**

Pour a bottle of certified alcohol solution into the simulator glass jar and tighten lid securely.

Connect long tube from input port to output port so no alcohol escapes while simulator heats up.

Turn on the simulator.

The simulator automatically heats the solution to 93.2°F (34°C).

**Note:** To ensure accuracy, solution must be changed every 30 days. When not using your simulator, remember to seal the input and output ports and keep the lid tightly shut - otherwise the alcohol in the solution will evaporate and you will get inaccurate results.

---

**Notes and DOT Compliance**

- Calibration check is also known as verification.
- The QAP specifies that you should perform a calibration check (verification) on your Phoenix 6.0BT as soon as conveniently possible, after a positive confirmation test.
- Calibration and calibration check information is stored with each test.
- During a calibration check, the Phoenix 6.0BT is making certain the calibration was performed correctly.
Performing a Wet Calibration

Prepare the wet bath simulator according to its instructions on page 41.

Disconnect long tube from the output port. Attach a mouthpiece adapter securely to the output port on the simulator lid. Refer to your simulator manual for location.

Turn the Phoenix 6.0BT on. Attach a mouthpiece to the back of the unit.

Press the Function button until display reads “CALIBRATION”, then press the Execute button. Display reads “WET CHECK”.

Press the Function button until display reads “WET CALIBRATE”.

Verify the “CAL STANDARD” is set to the concentration of certified alcohol solution you will be using when you calibrate. To select a new Calibration Standard, see page 36.

Slide the Phoenix 6.0BT mouthpiece over the mouthpiece adaptor on the simulator.

Be prepared to blow into the tube for up to 10 seconds.

Start blowing

• Blow through the input tube (or use a calibration pump) to create and maintain 1/2” of bubbles on the surface of the solution.
• Press Execute to proceed and start a 3 second countdown.
• Press Execute to take a sample.
• Continue blowing for another 3 seconds.

Stop blowing

If successful, the display will read “CAL COMPLETE” and show the time.

If no alcohol is detected, display reads “INVALID CALIBRATION”. Please repeat calibration setup and test, starting with wet bath simulator setup.

Disconnect the unit and wait at least two minutes before conducting a Cal Check to verify the accuracy of your calibration.

Note: Following calibration, a Cal Check is required before the unit allows you to conduct any tests.

(Calibration display flow chart is shown on p. 56)
Performing a Wet Calibration Check

Prepare the wet bath simulator according to its instructions on page 41.

Disconnect long tube from the output port. Attach a mouthpiece adapter securely to the output port on the simulator lid. Refer to your simulator manual for location.

Turn the Phoenix 6.0BT on. Attach a mouthpiece to the back of the unit.

Press the **Function** button until display reads “CALIBRATION”, then press the **Execute** button. Display reads “WET CHECK”.

Verify the “CAL STANDARD” is set to the concentration of certified alcohol solution you will be using when you check the calibration. To select a new Calibration Standard, see page 36.

Slide the Phoenix 6.0BT mouthpiece over the mouthpiece adaptor on the simulator.

Be prepared to blow into the tube for up to 10 seconds.

**Start blowing**

- Blow through the input tube (or use a calibration pump) to create and maintain 1/2" of bubbles on the surface of the solution.
- Press **Execute** to proceed and start a 3 second countdown.
- Press **Execute** to take a sample.
- Continue blowing for another 3 seconds.

**Stop blowing**

The result and time are displayed. The result should be within +/- .005 BAC of the standard used. If your solution is greater than .100, accurate results will be within +/- 5%.

Example:

- A .100 BAC solution should read between .095 and .105 BAC.
- A .200 BAC solution should read between .190 and .210 BAC.

To print your results, make sure your Bluetooth printer is on and press the **Execute** button.

If no alcohol was detected, the display will read “INVALID CHECK”. Repeat wet bath calibration check instructions above.

(Calibration display flow chart is shown on p. 56)
Fuel Cells

Fuel cells are highly durable sensors that are capable of providing accurate breath alcohol results for years. There are, however, a few precautions you should take to make certain that these sensitive components perform for the longest period of time possible.

Use the device. Fuel cells like moisture. It is a good idea to take tests periodically to provide needed moisture to the fuel cell, especially in dry climates. You do not need alcohol, just breath.

Avoid cigarette smoke. Make certain no one is permitted to blow cigarette smoke into the unit. This can damage the fuel cell quickly.

Store in a cool place. Whenever possible, avoid high heat for prolonged periods.

Cleaning

Use of a mild disinfectant cleaner and a soft cloth on the outside of the case is recommended periodically to keep your unit clean. Do not use alcohol to clean the unit.
Lifeloc Bluetooth Mobile Printer

Your Phoenix 6.0BT is designed for printing with Lifeloc-specific printers such as the Lifeloc Bluetooth Mobile printer. Please thoroughly read the printer Operations Manual before operating the printer. The Bluetooth printer has been configured and paired with your Phoenix 6.0BT at the factory. The default print format has been set to label printing utilizing PermAffix Labels. Because of this, when you receive your kit, you simply need to load your labels and you are ready to print.

Printing via Bluetooth Wireless

The Phoenix 6.0BT Kit and GK Kit utilize wireless Bluetooth transmission between the Phoenix 6.0BT and the Bluetooth Mobile Printer. By default, the Phoenix 6.0BT is programmed to send and receive secure, encrypted data.

In order to print, you must be within the wireless coverage area of 33’. When you are ready to print, a signal is transmitted wirelessly from your Phoenix 6.0BT to the Bluetooth Mobile printer.

The Phoenix 6.0BT is set to discover only Lifeloc devices. Therefore, you will not be able to print to any other Bluetooth devices.
Charging the Printer Battery - Bluetooth

Connect the charger to the outlet and unit. Charging begins when the status light on the front of the printer turns orange. Once charging is complete, the light will go out.

It takes about 5 hours for the battery pack to fully charge.

*Note: The printer may be used while charging, if necessary.*

Changing the Label Roll

Press the Push Open button located on the top of the printer. Remove the old label roll. Place the new label roll into the printer with the first label feeding from the bottom of the roll.

Pull the first label outside of the printer, then close the cover.

To align the labels for printing, turn the printer on and press the feed button. The labels will roll out and stop automatically. The printer is now ready.

Bluetooth Wireless Troubleshooting Guide

If the printer will not print:

1. Confirm printer power is on and the unit is online. When the printer is on, the LED screen will be on and and your status light will be green.

2. Check the battery charge level. This Battery Status Indicator will be displayed on the LED screen of your printer. You will receive an error warning when your battery falls to a critical level.

3. Be sure the printer is within the wireless coverage area. The Phoenix 6.0BT has a range of up to 33’.

4. Confirm printer selection in the Phoenix 6.0BT is “Bluetooth”.

5. Confirm the roll of labels is properly loaded and aligned.

6. Power the printer off and then back on.
Lifeloc Printer Information

Along with the Bluetooth, your Phoenix 6.0BT is designed for printing with the Lifeloc-specified Thermal portable printer. Please consult your printer operations manual if you need more detailed instructions about specific printer functions.

Ensure the printer cord is plugged into the Phoenix 6.0BT and depress the power button located on the front of the printer. You are now ready to print your results following the instructions on page 13.

Battery charge time is 15 hours for thermal printers.

Thermal Paper Specifications

To ensure compliance with DOT regulations, please use only Lifeloc Thermalast Thermal Paper. Thermalast paper provides you with the security and long life needed for DOT evidential testing. Thermalast is double coated on both the top and bottom for image sharpness and durability.

Please note: Paper purchased elsewhere will not carry the same specifications and can render you out of compliance.

DataTrak™ Explained

DataTrak™ is a software program developed by Lifeloc, exclusively for use with Lifeloc’s breath testing equipment. Ordered separately, DataTrak software enhances the capabilities of the Phoenix 6.0BT by allowing it to communicate with a computer and comes complete with CD, cable and instructions.

Data Download – With DataTrak you can download any or all the tests stored in the Phoenix 6.0BT in a comma delimited text format for easy import into most spreadsheet or database programs. You can also download directly to Microsoft Excel.

Printout – With DataTrak and your computer, you can print the results of any test result stored in the Phoenix 6.0BT.

Remote Troubleshooting – DataTrak can download critical operation parameters from the Phoenix 6.0BT to your computer. This information can then be e-mailed or sent to Lifeloc Technical Support for analysis or remote diagnostics.
DataTrak™ Set-up

Connect the Phoenix 6.0BT to the serial port on the PC using the Phoenix 6.0BT computer cable supplied with DataTrak software.

From the “Printer” screen, choose the “DataTrak” option. See page 27.

Refer to the “DataTrak” Operations Manual to establish communication with the Phoenix 6.0BT.

Messages Explained

<table>
<thead>
<tr>
<th>Message</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1.3L Retest or Try Manual Test</td>
<td>Breath flow ended before the subject blew 1.3 liters of breath. Instruct subject to try again or use manual test mode.</td>
</tr>
<tr>
<td>&gt;0.6</td>
<td>BAC is unusually high and above 0.6. Subject may require medical attention.</td>
</tr>
<tr>
<td>Air Blank Failed</td>
<td>Alcohol was detected during an air blank. Move to another location and retry.</td>
</tr>
<tr>
<td>Calibration/Cal Check Expired</td>
<td>Calibrate or Cal Check the unit.</td>
</tr>
<tr>
<td>Calibration/Cal Check Expiring</td>
<td>The unit is within 48 hours or ten tests of the Calibration or Cal Check lockout setting.</td>
</tr>
<tr>
<td>External Interference</td>
<td>External interference has been detected. Move to a different location and try again.</td>
</tr>
<tr>
<td>Flow Error — Retry &amp; Blow Steadily</td>
<td>Exhalation not complete or interrupted. Instruct subject to blow steadily as long as they can.</td>
</tr>
<tr>
<td>Invalid Calibration/ Cal Check</td>
<td>No alcohol was detected. Repeat setup, then retest.</td>
</tr>
<tr>
<td>Log Empty</td>
<td>There are no results in the memory.</td>
</tr>
<tr>
<td>Low Battery</td>
<td>Battery voltage is too low to take a test. Replace batteries.</td>
</tr>
</tbody>
</table>

Notes and DOT Compliance

• If you are conducting DOT post-accident testing, you will need to print test results on-site. A portable printer will be necessary for this task.

• Printing test results via your PC is an effective method of reducing your initial set-up costs if portability is not a concern.

• DataTrak™ software allows the operator to download test results that can be imported into a spreadsheet or database program.
Low Li Battery The internal clock battery is low. Contact Lifeloc Technical Support.

Printer Error Check that printer is connected and power is on.

Pump Reset Needed The pump needs to be reset. Follow on-screen instructions.

Temperature When calibrating or taking a test, unit is outside of temperature limits. Calibration range = 68° - 95° F (20°-35°C) Testing range = 32° - 104° F (0° - 40° C)

Timeout Unit experienced a timeout. Please try again.

Cnnct BTKyBrd Unit and keyboard are establishing a connection

Cnnct BTPrtnt Unit is connecting to your printer.

BTCnnct Failed Unit can't find a connection to the keyboard or printer. Please make sure the device is powered on.

Notes
- The flexibility of the Phoenix 6.0BT display allows it to utilize plain English prompts.
- Units requiring service at our factory are repaired within 5 working days from the time they are received.
Factory Limited Warranty on New Units

The Phoenix 6.0BT comes with a **deluxe one year limited parts and labor warranty**, effective on the date of purchase by the end-user.

The Deluxe Warranty covers:

- Parts and labor on covered repairs
- Software updates, as applicable
- Air freight back to the customer after the unit is repaired (U.S. only)
- Free rental of a Phoenix 6.0BT while your unit is in for repair (subject to availability)
- Free Factory Diagnostic Check at the end of the warranty

The Deluxe Warranty does not cover:

- Freight to the Lifeloc factory
- Misuse, abuse, negligence or accidents

Extended Service Plans

Extended service plans are available for your Phoenix 6.0BT. These provide complete coverage for additional year(s) at attractive rates and include free Factory Diagnostic Checks. Call Lifeloc for additional details or apply online.

Service

If your Phoenix 6.0BT should require repairs or maintenance, Lifeloc is here for you. Just an email or phone call will put you in contact with our technical support personnel. Many minor adjustments can be made over the phone.

Repairs are completed within 5 days for up to 5 units or it's free. For more information, please e-mail service@lifeloc.com.

Notes

- Before you send a Phoenix 6.0BT to Lifeloc for diagnosis or repair, please call the Technical Support Department to receive a Return Authorization (RA) Number.
Notice

The Phoenix 6.0BT is a professional device designed to be used by trained operators in conjunction with a specified, periodic maintenance and calibration/calibration check regimen. Use by untrained operators or without periodic calibration or calibration checks may result in invalid results or incorrect interpretation of results.

DO NOT DRINK AND DRIVE. Lifeloc strongly recommends that no vehicle be operated after alcohol consumption. Even small quantities of alcohol can result in driving impairment.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>2.6” x 5” x 1.25” (66 x 127 x 33 mm)</td>
</tr>
<tr>
<td>Weight (w/ batteries)</td>
<td>9 oz. (255 grams)</td>
</tr>
<tr>
<td>Detection Range</td>
<td>0 to .600 BAC</td>
</tr>
<tr>
<td>Accuracy</td>
<td>+ .005 BAC, to .100 BAC</td>
</tr>
<tr>
<td></td>
<td>±5% above .100 to .400 BAC</td>
</tr>
<tr>
<td>Battery Life</td>
<td>Approximately 70 “on” hours or up to 2600 tests</td>
</tr>
</tbody>
</table>

Supplies

For the most current listing of supplies for your Phoenix 6.0BT, go to:

- [www.lifeloc.com. Click on Supplies>Supplies by Tester>Phoenix 6.0/EV30](http://www.lifeloc.com. Click on Supplies>Supplies by Tester>Phoenix 6.0/EV30)

You can place your order online or call Customer Service at 303-431-9500 or 800-722-4872.
Sample Print-outs

Short Printout

Long Printout

Special Printout
Notes and DOT Compliance

- The standard data to be entered into the Phoenix 6.0BT would be the subject's social security or employee number.

- If no data is entered, a blank line will appear for the operator to write directly on the printout.
Settings Chart

Settings ➔ Execute ➔ Easy Mode ➔ Execute ➔ On/Off

Function ➔ Time ➔ Function ➔ Date ➔ Function

Function ➔ Auto Airblank ➔ Function ➔ Shutoff Time ➔ Function

Function ➔ I.D. Entry ➔ Function ➔ Trigger Mode ➔ Function

Function ➔ Security ➔ Function ➔ Printer ➔ Function

Function ➔ Display ➔ Function ➔ Battery Type ➔ Function

Exit ➔ Execute ➔ Password ➔ Function ➔ Exit

Function ➔ Execute ➔ Contrast ➔ Function

Function ➔ Execute ➔ Test Order ➔ Function

Function ➔ Execute ➔ Results Format ➔ Function

Function ➔ Execute ➔ Pass Level ➔ Function

Function ➔ Execute ➔ Fail Level ➔ Function

Function ➔ Execute ➔ Exit
Calibration Display Chart

1. Calibration -> Execute -> XXX Check -> Execute -> Perform a Cal Check
   - Function

2. XXX Calibrate -> Execute -> Perform a Calibration
   - Function

3. Cal Settings -> Execute -> Cal Standard
   - Function
     - Standard Type
       - Function
         - Cal Time Type
           - Function
             - Cal Time
               - Function
                 - Cal Num Tests
                   - Function
                     - Check Time
                       - Function
                         - Check Num Tests
                           - Function
                             - Lockout Type
                               - Function
                                 - Exit

4. Execute
5. Exit
Bluetooth Settings Chart

Settings
- Function
  - Bluetooth
    - Execute
      - Printer
      - Keyboard
      - Other
      - Function
        - Current Device
          - Execute
            - Scanning
              - Execute
                - Select New Device
      - Function
        - Exit
Unlock the Power of Alcohol Testing

Hours of Operation: 7:30 am - 5:00 pm MST
If you are calling outside of these hours, please leave us a voice message. We will contact you the following business day!

From our single location in the Denver, Colorado metropolitan area, we manufacture and service our products with you in mind. Every product is designed with quality and ease-of-use as our priorities. And our 5 Star Service is the fastest in the industry.

Lifeloc breath testers are used across the US and in over 35 countries. We carry all of the accessories and supplies for your breath test equipment. Please call us to reorder supplies and accessories or for information on purchasing additional testers.