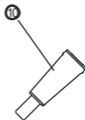
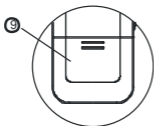
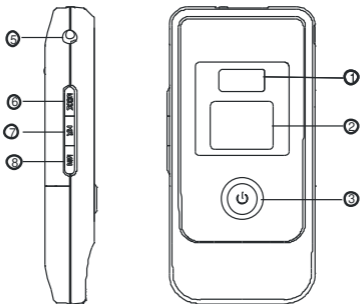




# Portable Breathalyzer



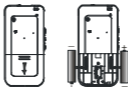
- |                        |                             |
|------------------------|-----------------------------|
| (1) LCD Display        | (2) Tester Display          |
| (3) Power Button       | (4) Exhaust Hole            |
| (5) MODE Button        | (6) HR Button               |
| (7) MIN Button         | (8) Battery Compartment Lid |
| (9) Tube Opening Cover |                             |

### Parts description

1. Proprietary design of hidden Exhale Tube.
2. Orange Back Light.
3. Four-digits Display.
4. 3 Exchangeable measurement units-%BAC, ‰BAC and mg/l BRAC.
5. Fast Response and Reset.
6. Automatic Turn-off.
7. Low battery Indication.
8. Real time/Alarm time/Count down timer
9. Tester Use of 2 pieces "AAA" Alkaline Battery, Clock use of a AG13 button cell

### Battery Installation

1. Open Battery Compartment Lid (10) per diagram.



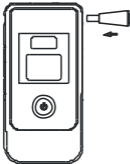
2. Put into 2 pieces "AAA" Alkaline Battery.
3. According to the +/- poles in battery installation.
4. Suggest to use 2 pieces 1.5V Alkaline Battery.
5. Remove the insulator to activate the 1.5V clock button



cell (AG13), which is supplied before use.

6. Close battery compartment Lid.

1. Get the tube opening cover(10) from the accessories package



2. Install the tube opening cover as shown in diagram.

Please note: Please use another finger to press firm the switch to avoid it to be pushed backward at time of installing the tube opening cover.

3. Please pay attention to the hygienic of the tube opening cover. It is not advisable to take it out from the package if it is not to be installed.

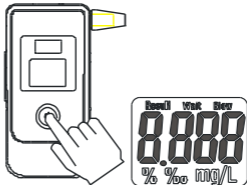
4. Remove the packing bag after the tube opening cover is installed firmly.

5. Please use new tube opening cover for every new user.

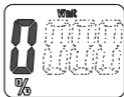
Courtesy reminder: if the user does not bring with his own tube opening cover, it is temporary allowable to exhale direct on to the opening of the exhale tube without installing the cover.

### Warm up

1. Press<POWER> switch firmly for about 1second, the breathalyzer will sound a “BEE”. The orange back light will be on the LCD Display and all characters will light up for about 2 seconds.(per diagram).



2. Then, the word "WAIT" appears on the top part of the LCD display. The four digits "0" are rolling by turn from left to right repeated until the warm up process is finished.



#### Courtesy Reminder

If the unit is new and has not been used before, or not been used for long time, the warm-up process will take longer time. Normally, it should be finished within 30 seconds.

#### Exhale Test

1. When the warm-up process is finished, the unit will sound a "BEE" and the word "Blow" appears simultaneously on the LCD display



2. The countdown time "10-0" appears. It indicates the breathalyzer is ready for the exhale test.



3. To perform the test, the person should take a deep inhale, then, exhale with some strength by mouth into exhale tube for about 4-5 seconds.
4. When the breathalyzer sounds a short "BEE", it indicates the air inside is good enough. The person can stop to exhale into the unit.
5. After the exhale stopped, the breathalyzer will sound a "BEE" again. The test result will display on the LCD.
6. When the breathalyzer is ready for the exhale test unit to the timer finished the "10-0" countdown, if there is no air exhale into the unit, or if the person exhales without drinking any alcohol, or even the person has drunk but the alcoholic concentration is less than 0.005%<sub>o</sub>BAC, the LCD will show the result value as "0.000".
7. Please exhale into the breathalyzer before the timer finished the "10-0" countdown.  
Please pay attention in the exhale process, not to block the exhaust hole(6) at the bottom of the breathalyzer.

## Test Result

1. A 4-digits value of the best result will display on the LCD for about 15 seconds.



2. It will display the resultant unit simultaneously.
3. When the test result value exceeds the set alarm value, the unit will sound its alarm continuously.
4. The alarm set points are as follows: exceed 0.050%BAC (0.500‰BAC, 0.250mg/l BRAC).

## Courtesy Reminder

1. In order to get a more reasonable and accurate test result, it is advisable to perform the exhale test in 3 or 4 times. It is suggested to use the test resultant values from the last 2 tests for a more accurate result.
2. For the accuracy of the test result, every test interval should not be less than 2 minutes.
3. Improper exhale method such as sudden stop during the exhale process, or immediate inhale after the exhale, the breathalyzer may give an inaccurate test resultant value.
4. Please do not use high concentration air to perform the test such as the exhale person has high concentration of alcoholic in his mouth and exhale immediately into the breathalyzer. In the case, it will seriously affect the usable life of the sensor installed in the unit.
5. It is suggested to perform the test 30 minutes after drinking wine.

## Measurement Unit

1. When the result value show on the LCD,It will display the resultant unit simultaneously, press the <POWER> button can change measurement unit as beow:



## Automatic Turn-off

The test resultant value will be displayed for about 15 seconds. Then, the word "OFF" will be blinking on the LCD display for 2-3 seconds. The breathalyzer will be turned off automatically by itself.



## Low Battery Indication

1. When the word "Lo" is blinking on the LCD display, it indicates the battery is low.



2. The word "OFF" will appear and blink for 2-3 seconds. Then, the breathalyzer will turn off automatically by itself.

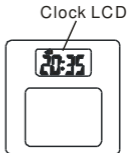
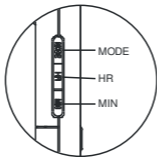


3. Please change new battery as soon as possible.

### LCD Back Light

1. It is suggested to use alkaline battery for a longer time use of the breathalyzer.
2. Please do not mix to use new and old batteries together in the breathalyzer.
3. Please do not mix to use alkaline battery with other type of battery in the breathalyzer.
4. Please take the battery out from the unit if the breathalyzer will not be used in the foreseeable future to avoid possible battery leaking.
5. Please do not place the alkaline battery into the fire or to recharge, or impact it with big force. All these acts may lead to possible dangerous explosion.

### **How to use the clock**



### **Real time**

1. In the real time mode, press <HR> button to select 12 or 24 hour format.

2. Press and hold <MODE> button for 2 seconds to enter real timer setting, the hour & minute digits are flashed on the clock LCD.
3. Press <HR> or <MIN> button to adjust hour or minute.
4. Press<MODE> button to confirm.

### **Alarm time**

1. In the real time mode, press <HR> button 1-5 times to enter alarm 1-5 mode respectively.
2. Press and hold <MIN> button to select alarm on or off.
3. Press and hold <MODE> button for 2 seconds to enter real timer setting, the hour & minute digits are flashed on the clock LCD.
4. Press<MODE> button to confirm.

### **Count down time**

1. In the real time mode, press <MODE> button 6 times to enter timer mode.
2. Press and hold <MODE> button for 2 seconds to enter real timer setting, the hour & minute digits are flashed on the clock LCD
3. Press <HR> or <MIN> button to adjust hour or minute.
4. Press<MODE> button to confirm.
5. Press<MIN> button to start countdown when the timer value is not 00:00, press <MIN> button again to stop the timer.
6. When the timer count down to 00:00, the alarm will sound, the reload the timer value.

### **Replace clock battery**

Replace the AG13 button cell when the clock LCD is faint.

### **IMPORTANT REMINDER**

- This breathalyzer is used for exhale test. It is not for blowing test.
- Please do not blow smoke or spit into the breathalyzer to avoid damaging the sensor inside.
- Please do not smoke, eat and drink 20 minutes before performing the test in order not to disturb the accuracy of the test value.

- Please pay utmost attention not to allow any kind of liquid to go inside the breathalyzer.
- Please do not benzene, thinner or gasoline or similar chemical solvent to clean the breathalyzer.
- Please do not place the breathalyzer near any product with odor and hazardous smell such as paint, insect repellent etc.
- Please do not place the breathalyzer in a polluted area.
- Please do not dismantle the breathalyzer and replace any parts inside the unit.
- Since every person will have different reaction on alcoholic, the TEST RESULTANT VALUE will be different person taken the same amount of alcoholic drink.
- This product is only for the reference of personal use. The Test Resultant Value CAN NOT be used as a legally test basis under the LAW. The producer of this breathalyzer does not legally liable and does not have any legal responsibility for any dispute caused by the Test Resultant Value given by this Breathalyzer.

## **Specifications**

- \* Sensor: semi-conductor alcoholic sensor.
- \* Testing range: 0.000%-0.190%BAC(0.000-1.900‰BAC or 0.000-0.995mg/l BRAC).
- \* Accuracy for different measurement units.
  - Alarm point in 0.050%BAC:  $\pm 0.015$ .
  - Alarm point in 0.500‰BAC:  $\pm 0.150$ .
  - Alarm point in 0.250mg/l BRAC:  $\pm 0.075$ .
- \* Power source
  - Breathalyzer: DC3.0V(2 x 1.5V "AAA alkaline battery )
  - Clock: DC1.5 (1x AG13 button cell).

- \* Process Time: Warm-up time: 10-30sec.  
Resultant time: <5sec.
- \* Clock accuracy: +/-2.0 seconds/ day
- \* Unit measurement: 107x54x18mm(H x W x T)
- \* Unit weight: (not include battery):56g.
- \* Best working temperature: 10℃- 40℃.
- \* Best working humidity: 40%-90%.



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