

Breath Alcohol Tester
AT8800 **Operation Manual**

HW120401146

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1. Summary

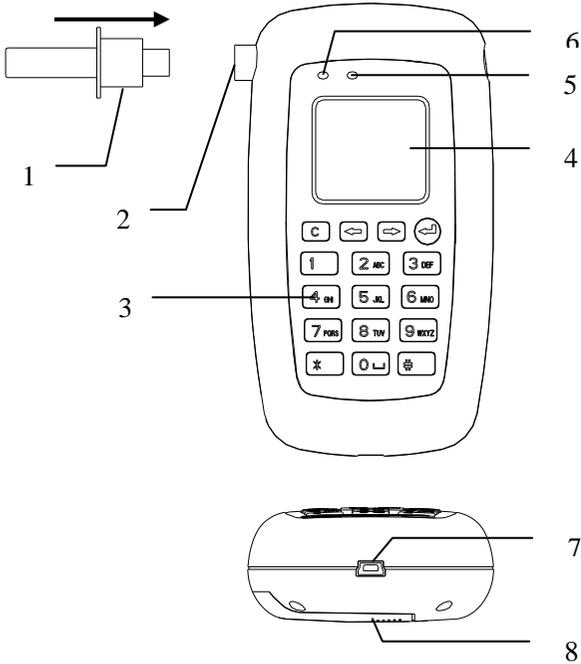
AT8800 is more advanced portable Breath Alcohol Tester. Its core component adopts Electrochemical Sensor and the tester can measure accurately concentration of the breath alcohol with strong anti-return ability. With the design of “mobile phone” keyboard, the menu operation, the admirable human-device interface, and the intelligent input methods, the operation of AT8800 is more concise and convenient. Also its multicolor LCD makes interface more clear and beautiful, inner bluetooth module achieve Bluetooth printing function, and one-off anti-return mouthpiece ensures the health and safety of users.

Main functions and futures:

- Electrochemical sensor, good reliability and accuracy
- Wireless printing function
- Colorful LCD indication
- Short warm-up time, fast response and resume
- “Mobile phone” keyboard for operation
- Intelligent input methods, more concise and simple
- real time and temperature indication
- Two level audible and visible alarm indication
- Low battery power off automatically
- Blowing interruption and testing rejection function
- Five unit selected and alarming level adjustable
- History record checking
- Connect to PC and upload the result by USB port
- Password management for important operation
- Adopt anti-return mouthpiece for health and safe

2. Indication of configuration and function

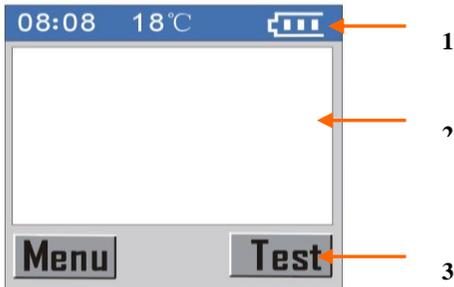
2.1 Configuration



Pic 1

1	Mouthpiece	5	Alarm indicator
2	Blowing hole	6	Operation indicator
3	Keyboard	7	Communication port
4	Display	8	Battery cover

2.2 Display



Pic 2

1. Time, temperature and indication of battery
2. Information indication
3. key-press indication, indicate currently function of **【C】** button, **【←】** button

2.3 Button function

Button	Function
C	Exit present mode, delete characters in the left of cursor
←/→	Move cursor for the selection of character or referring to history record.
↵	Enter into the selection menu, select the red typeface character from list.

3. Main technique Information

Sensor type: Electrochemical sensor

Range:0~2.000mg/l

Pass level: 0.090mg/L

Fail level: 0.250mg/L

Battery parameter: 2×AA batteries, rating capacity: 2.1AH

Battery working time: more than 2000 times under normal testing conditions

Dimension l×b×h, mm:122×67×31mm

Weight: about 120g (excluding battery)

Table 1 Allowable error

Alcohol gas concentration range C (mg/L)	Error
$C < 0.400$	± 0.020 mg/L
$0.400 \leq C < 1.000$	$\pm 5\%$
$C \geq 1.000$	$\pm 20\%$

Table 1 the allowable error in the process of detecting

4 Power on

Press the “ \hookrightarrow ” button, the test is powered on, and the system will make the self checking program automatically, with a buzzing from buzzer, the red and green indicator light illumes and then go out, the screen displays product type. After self checking, tester enters into the main interface.

(Table 2)

5 Power off

5.1 Manually operation power off

In the power mode, press 【←】 button at least 1s, the tester will be powered off.

5.2 Power saving off

The tester will be powered off without any operation for more than 3 minutes at display status of main interface.

5.3 Low battery power off

The tester will be powered off when low battery, please take out the battery and recharge or store them.

Indication of battery icon

	Full electric quantity		Low electric quantity
	Partial consumption of electric quantity		Short of electric quantity, recharge it timely

6 Testing

Operation Procedure: Under the main OSD menu, press “←” key, wait for a moment, blow, the tester makes the analysis, show the testing value, input the drive’s info, printing. Please refer to the following details:

6.1 Testing Procedure:

Insert a new mouthpiece on the tester. Turn on the tester, when it enters main menu (see picture 2), press “←” key, the testers will show “wait”. Please take a deep breath now, blow to the mouthpiece continuously when the LCD show “blow”. Stop blowing once heard the buzzer sound stops and a ‘Pa’ sound.

Then the LCD will show ‘analyzing’ to indicate it is make the

analysis. When this procedure is finished, the LCD will show the testing value. This value is the breath alcohol concentration of the users.

There are also the interrupt indication, testing reject and passive testing features:

1) Blowing Interrupt

During blowing procedure, the blowing air should be equal, and the blowing time should be longer than 2.5 seconds. If this procedure is interrupted, the tester will make 'Di-di-di' alarming signal and return to 'Blow' status automatically.

2) Testing Reject

When the user does not start to blow even the LCD indicates "Blow" for 50s later. The buzzer will makes a signal, the LCD will show "Testing Reject". Press "C" key to save this record and enter printing menu. Press "←" key to save this record and enter drive's info input menu.

3) Passive Testing

If the people do not cooperate to make the testing, the police could make the passive testing to her/him. When the LCD show 'Blow' indication, press "←" key and let people blow. After the tester makes the analysis, the LCD will show the testing result.

If some people are unable to blow, please use clean air to insufflate the mouthpiece for some seconds firstly, then remove the mouthpiece and press "←" key, put the tester close to the nose, press "←" key again. The tester will make the sampling and make analysis automatically. After this, the LCD will show the testing value.

6.2 Testing value type:

6.2.1. Pass drive status

When the testing value is higher than the preset Pass drive limit value and lower than the preset Fail drive limit value, the tester will enter Pass drive alarm status. The tester will make 'Didi' alarming sound, the LCD will display 'Pass drive' as well as the testing value.

6.2.2 Fail drive status

When the testing value is higher than the preset Fail drive limit value, the tester will enter 'Fail drive' alarming status. The tester will make 'Didi' alarming sound, the LCD will display 'Fail drive' as well as the testing value.

6.3 Driver info input

In result display menu, press "←" key to enter driver's info input menu. Press 'C' key to cancel and enter printing menu. The drive info will be saved as 'N/A'

Under driver info input menu, press number keys directly to input the drive info. If you need to revise any number, press "←" or "→" key to move the cursor to the right space, input the new number and press "←" key to enter printing menu

6.4 Printing

When the LCD shows 'Printing?', if the tester is connected with the wireless printer, press "←" key to print the result directly, press 'C' key to cancel printing and return to main OSD menu.

7, Menu Setup

In its turn on status (as Shown in Pic 2), press “C” to enter into Menu option, it includes eight options:

- History record,
- Print quantity,
- Time setup,
- Unit setup,
- Police ID setup,
- Password change
- Record clear up
- Alarming setup

Press “←” or “→” to choose needed option, it will show in red, then press “↵” to enter into its corresponding menu.

7.1 History Record

This option will help user to check the stored history record, it can be checked by pressing “←”, “→” button, the record line will show current record No. in its all records.

It could store 2000 records; if connect with printer, the result could be printed out by pressing “↵”, the tester will be back to main interface if pressing “C” button.

7.2 Printing quantity

In this interface, the printing quantity could be setted by pressing Numbers’ button, the quantity only could be set from 1-3 copies. Press “↵” to confirm this setup; or press “C” to quit this operation.

7.3 Time setup

Press “←”, “→” button to shift and choose the input location, then input the Numbers accordingly, after setup finished, press “↵” button to save it, the system will accept the new time.; if press “C”, it will quit then back to main menu.

Notification: Below options operation will need correct password, the tester initial password is “000000”.

The way to input password: it can be input by Numbers’ button, if input by mistake and need to change one of the numbers, move cursor by pressing “←” or “→” button to corresponding position, and input correct Numbers again.

7.4 Unit Setup

After input correct password, press “↵” to enter into unit setup, then press “←” or “→” button to choose the needed unit, it will show in red, press “↵” button to confirm this operation, the tester will accept this new unit indication.

There are five units available:

- A, (BrAC) mg/L
- B, (BAC) mg/100mL
- C, g/L
- D, ‰BAC
- E, ‰BAC

If unit change, the Pass and Fail level will be updated automatically according to its units conversion.

7.5 Police ID Setup

After input correct password, press “↵” to enter into Police ID setup, the ID could be input by pressing Numbers button, and

if any input mistake can be changed by pressing “←”, “→” to move cursor to corresponding position; By pressing “C” could delete its previous No.s. Pressing “↵” to keep this setup and exit.

If the cursor rests on first No. in the left, this setup will be quit if pressing “C”, then the tester will keep its last ID.

7.6 Password change

After input correct password, press “↵” to enter into New Password input interface. After input the new password, press “↵” button to save it. If no need to change, press “C” to quit this operation.

7.7 Records clear up

After input correct password, press “↵” and the screen indicates “Delete all? ”, meanwhile, press “↵” button to delete all the history records, press “C” button to quit the deleting. The screen will indicate “No records” and return to the main interface without history record.

Note: As “Delete” will delete all the history records entirely and can’t get back, please be cautious to operate.

7.8. Alarm setup

Input correct password at the “input password” dialog box, press “↵” to enter the interface of alarming level setup of Pass and Fail. At the interface, press “*” to choose Pass or Fail, the selected item is showed in red. If the corresponding alarm point need to be changed, please press “←” or “→”to adjust the value, the scale in the input text is the value of Pass and Fail separately. After finished the setting, press “↵” to keep the setup.

8. Data upload

This function together with software is able to upload the test data to the computer for backup. The upload step is as follows:

- (1) Connect the port of tester communication data with computer by the data cable, open the computer and operate the coordinate data management software.
- (2) Turn on the tester, operate the data management software at the stand-by mode. Notice: data upload must be operated at the stand-by mode, do not operate the tester during the process in case of mistakes of uploading.
- (3) Ensure of the data backup to the computer, then turn off the tester.

9. Battery change

When the tester reminds low battery, or it can't work properly because of low power, please change new batteries in time to ensure the correct testing.

10. Accessories

AT8800 tester,	1pc
Bluetooth Printer (Optional)	1pc
Charger of printer (Optional)	1pc
Operation manual,	1pc
Inspection report,	1pc
Communication CD,	1pc
Communication data cable,	1pc
Mouthpiece	10pcs

◆ Please use the standard accessories matched with the alcohol tester (Such as batteries, charger etc.)

◆ There is problem if the accessories are used in other

products, it's beyond of warranty.

11. Faults and solutions

Fault description	Possible Reason	Solutions
Unable to turn on the tester	Low battery	Change batteries in time
	Circuit fault	Contact with dealers or manufacturer
Wrong Display	Expired sensor	Contact with manufacturer to replace the battery
	Over the specified working conditions	Please be used in specified conditions
	Long time no calibration	Calibrate the tester
Wrong Time Display	Wrong time setup	Reset the time

12. Precaution

- Please read the manual carefully and follow the instruction before your testing.
- To ensure the real testing result, please wait 15 min to take the testing after drinking.
- The calibration of the tester should not be longer than 6 months for ensuring the accuracy of tester.
- Please do not blow smoke to the tester directly, otherwise the tester will be damaged.
- After storing for long time, the first test of tester may have errors.
- Avoid using the tester when environmental temperature exceeds its specified range.
- Avoid any high crash or strenuous vibration.
- Any application or fault beyond this manual, please contact with manufacturer or dealer for solutions.

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- ◆ High-tech enterprise with R&D, production, sales capacities and own national brand.
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HENAN HANWEI ELECTRONICS CO.,LTD

**Address: NO.169, Xuesong Road, National High-tech Zone,
Zhengzhou, 450001, China**

Service Tel: (86)0371-67169070/80

Fax: (86)0371-67169090

Service E-mail: sales@hwsensor.com

Website: <http://www.hwsensor.com>