1.Instruction

AT8030 is newly developed breath alcohol tester(hereafter refer to as alcohol tester) adopting advanced electrochemical alcohol sensor that has high accuracy and strong anti-interference ability. It has delicate appearance, comfortable hand feeling and compact operation. For protecting the safety and health,AT8030 will be your best bet.
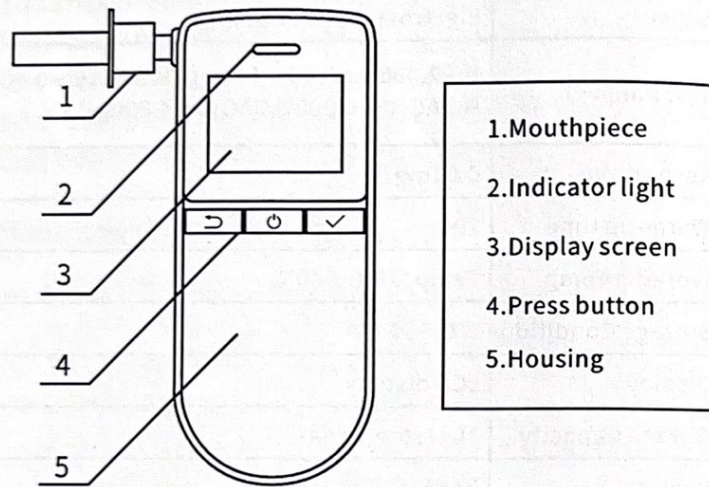
Main function and features:

- Adopt low power consumption 8 bit microprocessor with quick analysis.
- Mounted with electrochemical alcohol sensor with high accuracy and reliability.
- Exact blow detection and break prompt function.
- Clear and delicate LCD display
- Gentle backlight can support the use in dark surroundings.
- Compact keyboard.
- Adjustable alarming point and unit.
- Record latest 10 pcs result.
- The boot screen displays the tested times.
- Battery indicator function.
- Saving battery design such as auto turnoff backlight and auto power-off without operation for a while.
- Disposable mouthpiece will assure the health and safety.
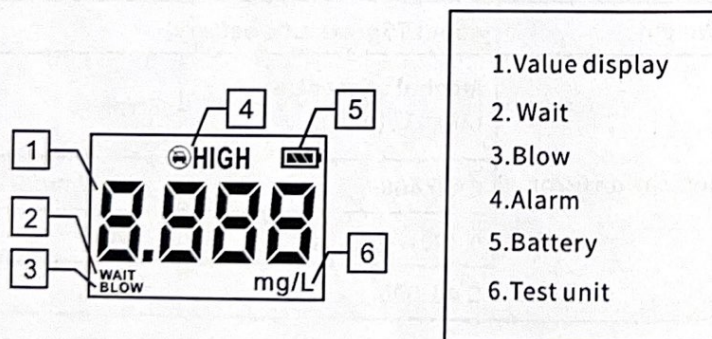
2.Specification

Model	AT8030	
Sensor	Electrochemical sensor	
Test Range	0~2.000mg/L (0~440mg/100mL;0~0.400 %BAC;0~4.000‰BAC;0~4.000g/L)	
Resolution	0.01mg/L	
Warm-up time	10s	
Working Temp	Temp:10°C~40°C	
Storage Condition	0°C~50°C	
Display	LCD display	
Storage Capacity	10 test records	
Power	2*AAA 1.5V battery	
Working Life	2years	
Dimension	127mm×53mm×22mm	
Weight	About 75g (exclude battery)	
Indication Error	Alcohol concentration range C/(mg/L)	Error
	C<0.400	±0.032 mg/L
	0.400≤C<1.000	±10%
	C≥1.000	±30%

3.Diagram

3.1 Appearance

1.Mouthpiece
2.Indicator light
3.Display screen
4.Press button
5.Housing

3.2 Display

| |
|---|
| 1.Value display |
| 2. Wait |
| 3.Blow |
| 4.Alarm |
| 5.Battery |
| 6.Test unit |

4.Operating Instructions

4.1 Start and test

1) Push the battery cover off the back of the machine, enclose 2 pieces of AAA, 1.5V battery.

2) Install a clean disposable mouthpiece according with the indication of figure 1.

3) Press and hold ⬚ for starting up the machine by hearing short beep, showing the backlight and the screen will display 10 seconds warm-up count down. Please don't blow during the warm-up, otherwise, the accuracy of test will be influenced.

4) When the screen shows " ﹝ ",please ask the subject to make a deep inhale, then aim at the mouthpiece and evenly blow continuously. Stop blowing until you hear "Crack" from the inside of the machine. Few seconds later, the screen will display the result.
In the course of blow, if the airflow is too small or interrupted, the screen will show "Err0"alarm, please wait a few seconds to restart the test.

5) If test result below the set alarming point, the indicator will be green; If test result reach or exceed the set alarming point, the indicator will be red accompanied with a quick alarm.

6) Press ☑ in the test result interface for starting the next round of test.

7) The alcohol tester will turnoff backlight and power-off automatically without operation for a while.

Note: If the test will be repeated for several times, please try to clear the condensation water inside the mouthpiece per ten times test, so as to avoid excessive condensation influencing the sensor that will result in large test error.

4.2 View record

In the state of power-on, press ⟲ ,and the historical test record will be available, press ☑ to return warm-up count down stage.

The 1st test result in the record is the last test result, so the alcohol tester can store last 10 test result.

4.3 Function Set

In the state of start-up, press ⟲ firstly and then press ⏻ for entering into functional interface as below picture 1.
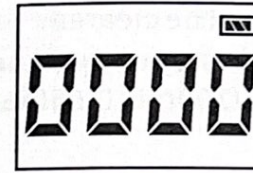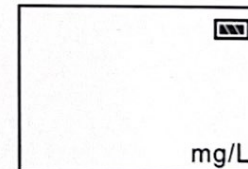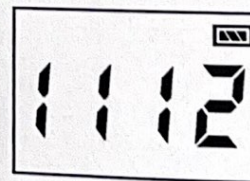

Pic.1

In functional interface, press ⟲ to select numbers, then press ☑ to confirm, input "1111"(pic.2),you will get into "Unit set" (pic.3) ;input "1112" (pic. 4) ,you will get into "Alarm set" (pic.5).


Pic.2
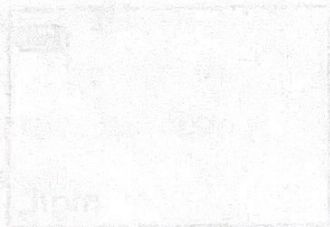

mg/L

Pic.3

Pic.4

mg/L
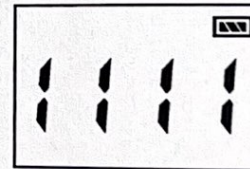
Pic.5

After getting into the menus, press ⟨⤴⟩ to modify the test unit or alarm point, press ⟨✓⟩ to save the setting, press ⟨⏻⟩ to exit functional setting interface and get back to historical record interface.

Note:If the test unit or alarm point is saved, the historical record will be cleared.

The default alarm point of the alcohol tester is 0.250mg/L (55mg/100mL;0.050%BAC;0.500‰BAC; 0.500g/L).
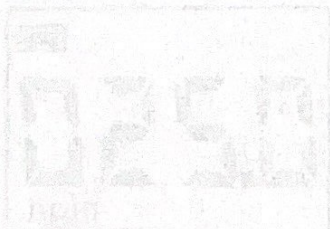
4.4 Power off
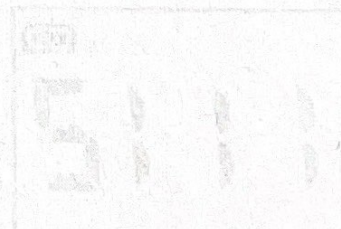
Press ⟨⏻⟩ to turn off the alcohol tester.