

**Alc
Smart**

Breath Alcohol Tester
AT6000 **Operation Manual**



Hanwei Electronics Corp.,Ltd.

169 Xuesong Road, National Hi&New Technology Zone, Zhengzhou China 450001

Tel:86-371-67169070 67169080

Email:hwsensor@163.com

Fax:86-371 67169090

<http://www.hwsensor.com>

AT6000 Alcohol Tester for Personal Use

Preface

Reminding Before your testing.

Alco Smart Breath tester should be used only to give an indication of the possible presence of alcohol in the breath/blood. You should not rely upon it as the sole basis to determine intoxication or whether it is safe to drive a vehicle, operate equipment, or engage in dangerous activities.

Everyone has different body responds to alcohol consumption and his testing result only as reference, not a subject standard for consequent decision.

The manufacture, importer or distributor takes no responsibility whatsoever for the use of this product for any reason. This product must not be used as a tool for determining whether a person is able to operate a motor vehicle or device legally or safely. The intake of any alcohol will impair reflexes and judgment to operate motor vehicle.

Before your testing, please view the manual carefully and follow the instruction strictly.

General Introduction

AT6000 breath alcohol tester is kind of tester designed to measure concentration result of the breathed alcohol in the human body. This device adopts advanced NM Hot-wire alcohol sensor which has excellent sensitivity and reproducibility, fashion and portable design make it more convenient for personal use. When the alcohol content exceeds the preset limited level, this device would send an audio and video warning to remind your safety.

Main Feature:

Advanced NM Hot-wire alcohol sensor

Quick response

SMD assembling, stable performance

Smart MCU control

Direct testing process LCD indication

Digital LCD display with light blue backup

□ Portable and fashion design

Audio warning beyond pre-set limit

Sensor Fault Self checking□

Battery saved design, low voltage indication

Technical Data

Sensor type: NM Hot-wire alcohol sensor

Detection Range: 0.00 1.00mg/L (0.00 0.20%BAC; 0.00 2.00g/L; 0.00 2.00‰BAC)

Alarming Level: 0.24mg/L (0.05%BAC, 0.50g/L; 0.50‰BAC)

Accuracy: ±5% F.S

Response Time: 5s

Warm-up Time: 20s

Resume Time: ≤20s

Working Voltage: DC4.5V 3×AAA Batteries; Working Current: ≤120mA

Working Environment: Temperature -10 50 Relative Humidity ≤95% No Dews

Display: 3 digits LCD display with light blue backup

Dimension: 103×65×27mm (L×W×H), ≤64 g Battery excluded

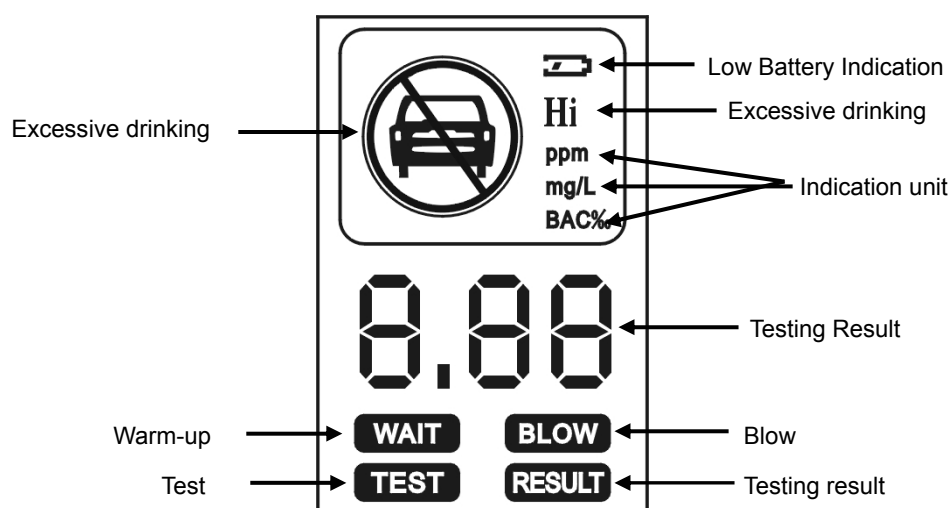
Battery expectancy time: ≥200Times

1. Structure and Function Guide

1.1 Structure Guide picture 1:



1.2. Function Guide



Digital Indication:

8.8 8	Alcohol content
20s Countdown	Warm-up Countdown
"C" on the LCD	ready for blow
000 flash	working mode conversion
FFF	sensor fault

2. Operation Instruction

2.1. Slide down the battery compartment on the back side, insert 3pcs AAA 1.5V batteries inside according to battery polarity indication and close it.

2.2. Press the switch button last for 1S, the tester would be on with a buzzer brief ringing, 'Wait' flashes and Warm-up of 20 sec begin, the fig on the LCD Countdown from 20-0, please wait now. Until "Wait" disappears, tester will send out a ring, meantime "BLOW" and "C" gliding, also the small car icon twinkles, now the test could begin.

2.3. Have a deep breath before testing, and blow directly to gas entry until a buzzer ringing, "000"

twinkles for 4S on the screen, at the same time the "BLOW" disappear and 'TEST' shown.

2.4. Tester will send out a ring after testing process finished, the LCD screen would give the readout of temporal alcohol concentration (If the testing result is lower than preset level, only the car icon twinkles; If the testing result is higher than preset level, the buzzer ringing continuously, at the same time the "Hi" and "No Driving" icon twinkles), this result would be keep on the screen for 10 sec, then cut off the power supply automatically with two buzzer ringing.

2.5. If a new testing needed, press the switch button again and repeat the above step 4.2□4.4.

3. Notification

3.1. Avoid any fall or strong shock.

3.2. If noise gas with high concentration existed, may the tester won't work normally.

3.3. If testing is done under low voltage, certain error will be existed between the real value.

3.4. To ensure the testing result, please wait 10 min to take the testing after your drinking.

3.5. Please operate it strictly according to this instruction. If long time not use, when you first begin a new testing, the first two times testing result may be unreliable, just begin testing from the third time, otherwise the result will also not be accurate.

3.6. Do not keep the tester in the environment of Corrosive gas (Chlorine etc) for use or deposit, also in other bad surroundings.

3.7. Under normal detections, sensor life could be more than two years.

3.8. After Long time use, there may be dirt on the tester, please use clean cloth to wipe off. Do not use any hard object or the solvent with any Corrosive ingredient.

Remarks: Common Fault and Solving solutions

Fault	Possible reason	Solution
NO display on LCD	Incorrect battery installation	Insert battery correctly according to polarity
	Low battery seriously	New battery replacement
	Circuit fault	Contact distributor
No response to detection gas	not complete Warm-up	Waiting complete Warm-up
	Circuit fault	Contact distributor
FFF display then power off	Sensor fault	Contact distributor
Low voltage display then power off	Low battery seriously	New battery replacement

To keep the continuous improvement of the products, we reserve the right to improve design without prior notice.

Hanwei

Electronics Co.,Ltd

2006.06

ALC Nose

AT-126 Breath Alcohol Tester

Reminding Before your testing

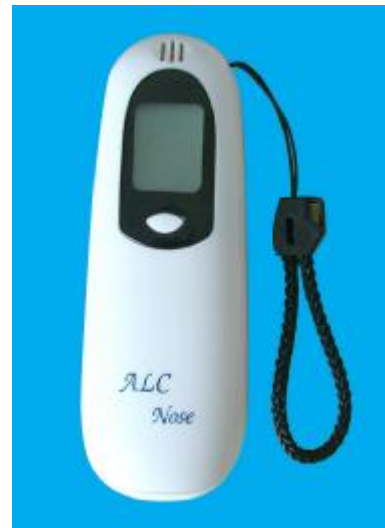
Alco Nose Breath tester should be used only to give an indication of the possible presence of alcohol in the breath/blood. You should not rely upon it as the sole basis to determine intoxication or whether it is safe to drive a vehicle, operate equipment, or engage in dangerous activities.

Everyone has different body responds to alcohol consumption and his testing result only as reference, not a subject standard for consequent decision.

The manufacture, importer or distributor takes no responsibility whatsoever for the use of this product for any reason. This product must not be used as a tool for determining whether a person is able to operate a motor vehicle or device legally or safely. The intake of any alcohol will impair reflexes and judgment to operate motor vehicle.

Main Features:

- Advanced NM hot-wire alcohol sensor;
- ☐ Quick response;
- ☐ SMD assembling, stable performance;
- ☐ MCU control;
- ☐ Cartoon and LCD indication, backup light
- ☐ Portable and small design
- ☐ No Touch Healthy design;
- ☐ Sensor fault self-checking;
- Battery saved design, low Volt warning.



Main Technical Info:

Sensor Type: Hot-wire alcohol sensor

Detection Range: 0.00~1.00mg/L(0.00~0.20%BAC; 0.00~2.00g/L)

Alarming Level: 0.24mg/L (0.05%BAC; 0.5g/L)

Working Volt: DC3V (2×AAA batteries)

Battery using time: ≥60 times

Using Environment: Tem: 0℃~45℃

Relative Hum: ≤93% No Dews

Response Time: <8S

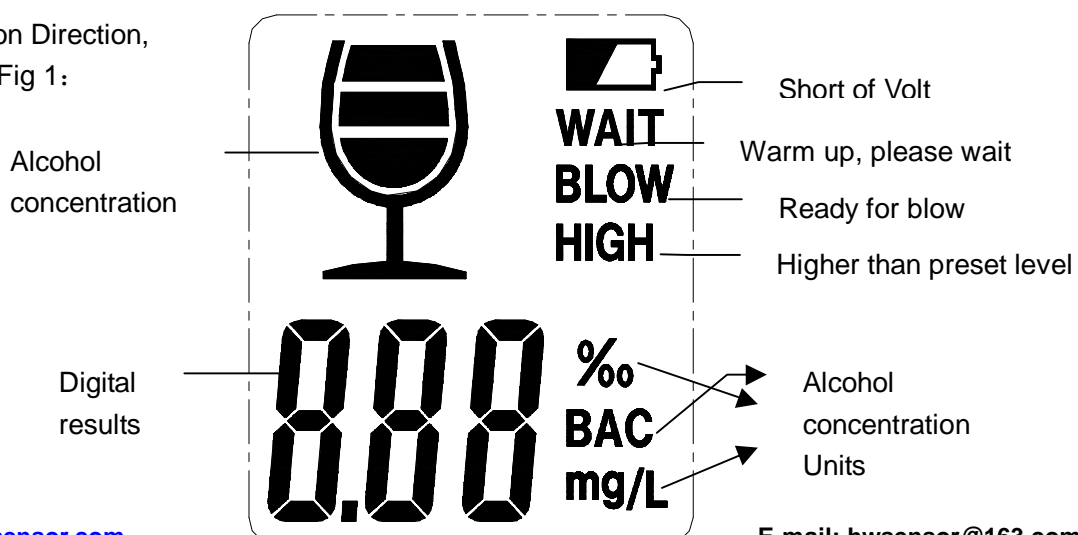
Warm-Up: <18S

Indication Manner: 3 digital LCD with cartoon indication

Dimension: l×b×h, 103×37×19 mm ≤45 g

Structure and function Direction

3.2 Function Direction, shown as Fig 1:



LCD indication:

8.8 8	Breathed alcohol concentration
10S / 18S count down	Warm -Up
3S count down	Low battery
"C" shown in circle	Ready, please blow
"000" shown in flash	Turning working manner
FFF	Sensor fault

Operation instruction:

- 4.1 Open the battery room in the back, packed 2 pcs of AAA batteries according to their polarity and close it.
- 4.2 Press the On/Off switch lasting 1S, backup light would be on following with a brief ringing, then shown (10.9.8 ... 0) count down, also "WAIT" shown on the upper of LCD screen, now the testers is in Warm-up status, please wait. After 10S W-Up finished, with a ringing, meantime shown "BLOW", and "C", now you can start the testing.
- 4.3 Take a deep breath, then blow to the gas entry slowly with 3-4cm interval until a buzzer ringing for stop, now "000" flashed in the LCD screen and result comes out.
- 4.4 The end, testing result would remain 8S, after that the tester would cut off the power with a buzzer ring.
- 4.5 If a new testing needed, press the "On/Off" switch again, then following the above 4.2 – 4.4 steps instruction.

5. Goblet indication



Above 0.08%BAC



0.05%BAC~0.08%BAC



0.02%BAC~0.05%BAC



0%BAC~0.02%BAC

6. Notification

- 6.1 Avoid any strong shock and drop to keep the tester in careful package or deposit.;
- 6.2 Do not wipe it with any cleaning agent, If noise gas exist, the normal testing would be disturbed;
- 6.3 Avoiding short of Volt batteries used in testing, the result would be not accurate and you need replace new battery;
- 6.4 It's better to take testing after 10Mins of drinking for more accurate results;
- 6.5 After long time storage, If the initial alcohol level of the LCD is on high Level, Please open and close it times to stabilize until the level is 0.00 in unit.