AT6000 Alcohol Tester

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
Fax: 86-371 67169090
Email: hwsensor@163.com
http://www.hwsensor.com
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

<table>
<thead>
<tr>
<th>Digital Indication</th>
<th>Picture 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.88</td>
<td>Alcohol content</td>
</tr>
<tr>
<td>20s Countdown</td>
<td>Warm-up Countdown</td>
</tr>
<tr>
<td>“C” on the LCD</td>
<td>ready for blow</td>
</tr>
<tr>
<td>000 flash</td>
<td>working mode conversion</td>
</tr>
<tr>
<td>FFF</td>
<td>sensor fault</td>
</tr>
</tbody>
</table>

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

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

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:
**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**

<table>
<thead>
<tr>
<th>8.8 8</th>
<th>Breathed alcohol concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>10S / 18S count down</td>
<td>Warm-Up</td>
</tr>
<tr>
<td>3S count down</td>
<td>Low battery</td>
</tr>
<tr>
<td>“C” shown in circle</td>
<td>Ready, please blow</td>
</tr>
<tr>
<td>“000” shown in flash</td>
<td>Turning working manner</td>
</tr>
<tr>
<td>FFF</td>
<td>Sensor fault</td>
</tr>
</tbody>
</table>

**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.