

trend**medic**

Alcohol Breath Tester

# Operational Manual



## **TABLE OF CONTENTS**

Introduction .....	01
Correct Measurement.....	01
Power Supply.....	01
Description of Parts .....	02
Operation.....	03
Accessories .....	05
Important Notes .....	06
Errors or Troubles.....	07
Calibration.....	08
Calibration Record .....	08
Specifications.....	09
Fuel Cell Sensor FAQ.....	10
Precautions.....	11


## Introduction

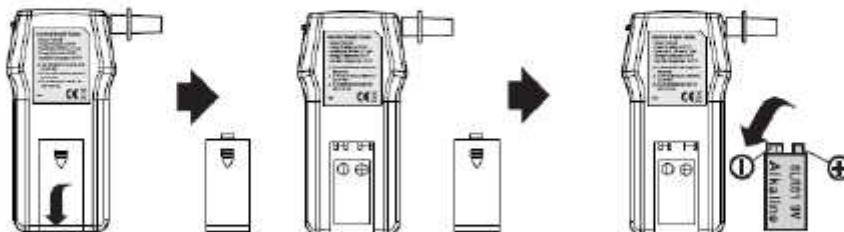
- The device is intended to measure alcohol in the human breath. Measurements obtained by this device are used in the diagnosis of alcohol intoxication.

## Correct Measurement

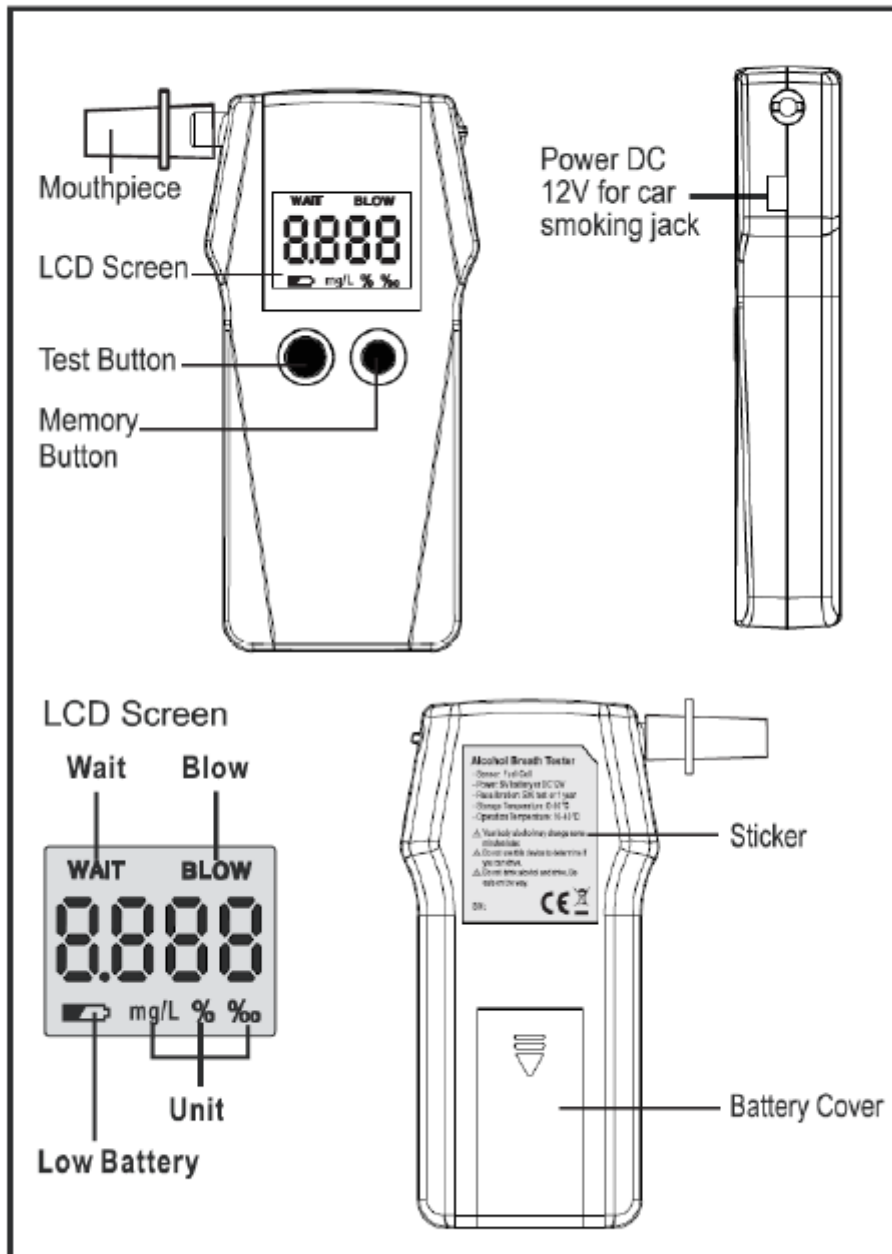
- Before testing, wait at least 15 minutes after your last drinking.
- Only use the device in a temperature 10-40 °C or 30-104 °F.

## Power Supply

- Slide back the battery cover on the back of the device.
- Insert 1 piece 9V alkaline battery, making sure that the +/- symbols are correctly aligned.
- If the battery voltage is too low, the unit may display a battery symbol “” and the device may not operate correctly. You need to change a new battery.
- The device can also be operated from DC12V by car smoking plug, no recharge function. The power of battery will be terminated when plugging the DC jack.



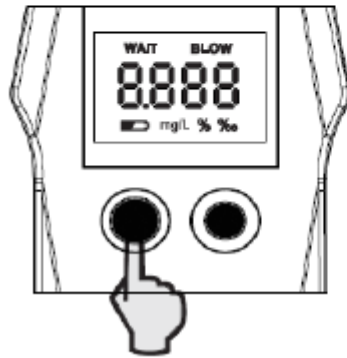
## Description of parts



## Operation

### Test Mode

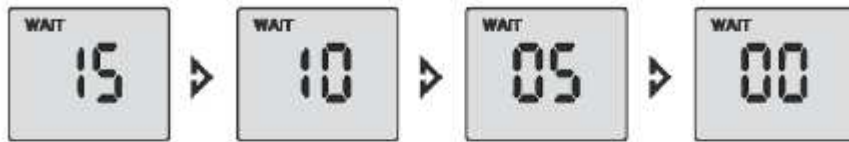
- Insert one of the mouthpieces into the 'blow in' hole.
- Press and hold the **TEST** button until power on. Release it after power on.



- LCD will display test counter before starting countdown.



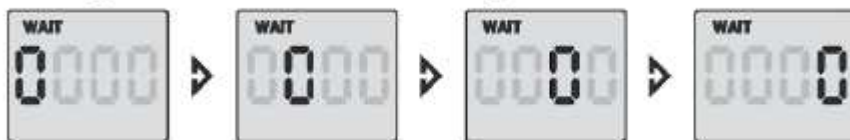
- The **WAIT** displays on the screen and countdown 15, 14, and 13... to zero.



- The **BLOW** displays on the screen, and displays “C” with flashing. Take a deep breath, blow steady into the mouthpiece until beeping stops (about 7 seconds).



- The **WAIT** displays on the screen and displays “0” with flashing, the device is calculating the alcohol content.



- Your test result will be displayed on the screen for 20 seconds.

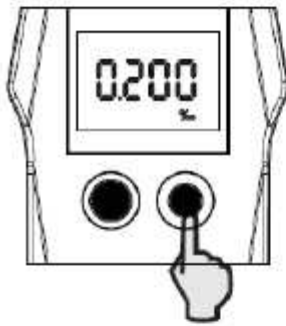


- It may show **Err** (error) if blowing incorrectly, refer to the chapter of Errors and Troubles in detail. The device will auto off after displaying error.



### **Memory mode**

- After tested, the device displays the test result for 20 seconds, press the “Memory” button to check your previous tested records.



- The device will auto off after displaying 20 seconds.
- The memory button is only available on this mode.

### **Accessories**





- Mouthpieces

### **Important notes**

- Before testing, wait at least 15 minutes after your last drinking for correct measurement.
- The blowing time must be enough until beeping stops. Take a deep breath before blowing.
- It may show Err(error) if no blowing, lower air flow, interrupt or shorter blowing. The device will auto power off after displaying error.
- The device change the place with different temperature, wait some minutes to use it. It may show error at this status.
- The memory recalls function only available after tested and during 20 seconds display.
- Only use the device in a temperature 10 - 40°C or 30 - 104°F for correct measurement.
- The data port of device uses by factory only.
- Suggest using alkaline battery with better accuracy.
- The car smoking plug will terminate the power of battery. The device only can use one of power sources, no recharge battery function.
- Recalibration: suggest each 12 month or 1200 tested times.
- Never store the device in a corrosive gas room.
- Never store the device under sun exposure area.
- Avoid dropping or subjecting the device to a strong shock.
- For your safety and responsibly, don't drink and drive.



## Errors or Troubles

Error Message or Troubles	Description	Remarks
No Display	<ul style="list-style-type: none"> <li>- Press and hold the TEST button until power on.</li> <li>- Check the battery</li> <li>- Check the power of DC jack, which will terminate the power of battery if plug in.</li> </ul>	
Auto Off	<ul style="list-style-type: none"> <li>- Low battery</li> <li>- Over the period of test stage</li> </ul>	
Hi	-The blood alcohol content above the display range.	
Err	<ul style="list-style-type: none"> <li>- Blowing unsteady or interrupt.</li> <li>- Blowing less 7 seconds</li> <li>- Blowing flow too weak</li> <li>- No blow during BLOW mode.</li> </ul>	
	<ul style="list-style-type: none"> <li>- Low battery indication</li> <li>- Need to change new battery</li> <li>- Use alkaline battery</li> </ul>	
Alarm Sound	<ul style="list-style-type: none"> <li>- Error message</li> <li>- Above alcohol set point</li> </ul>	

## Calibration

- Test counter indicates the times of tested, and display the digits after power on.
- The sensor may change the performance some month later.
- For better accuracy, suggest recalibration once for each 12 months or 1200 tested times.
- The risks related to the use of device with an expired calibration period and exceeded the test times.
- Contact your service agent in detail.

Calibration Record:			
Date First Used:		Serial Number:	
#	Calibration Date	Remarks	Recalibration by

## Specifications

- European Fuel Cell Sensor (Electro-chemical sensor)
- Blowing time: 7 seconds; Blowing flow: 10L/min
- Accuracy: +/-0.03mg/L (0.05%, 0.005%) at set point.
- Memory recall for last 5 tested data.
- 5 mouthpieces.
- Warm up time: 15 seconds.
- Testing Time: 10 seconds.
- Circling testing: less than 60 seconds.
- Audible sound alarm if above set point.
- Indication: 4 digits LCD with status and backlight.
- Power supply: 9V alkaline battery (not included) or 12 V DC adaptor.
- Battery available for standard testing is about 1200 times.
- Low battery indication and auto function.
- Operation: 10°C - 40°C; Store: -10°C ~ +50°C
- Test counter with alarm of recalibration
- Recalibration: each 12 months or test 1200 times
- Blowing pressure and interrupt detection
- Size: 120x65x28mm

## **Precautions**

- Your blood alcohol content (BAC) may change some minutes later.
- Do not use this device to determine if you can drive.
- The risks related to the use of device with an expired calibration and exceeded the test time.
- You cannot use the test results of device in court of law.
- You cannot use the test result of device against police's unit.
- For your safety and responsibly, don't drink and drive.

