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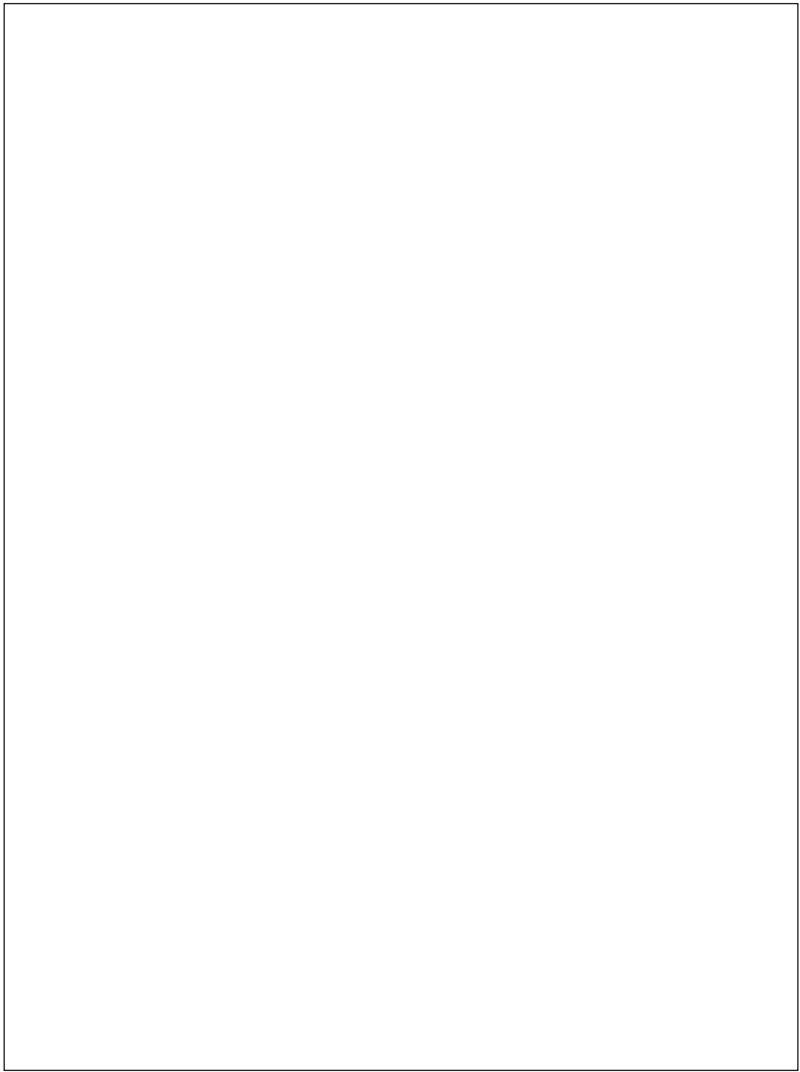
WIRELESS COMMUNICATIONS LTD.

SBAA-02 (R)

Breath Alcohol Analyzer



INSTRUCTION MANUAL



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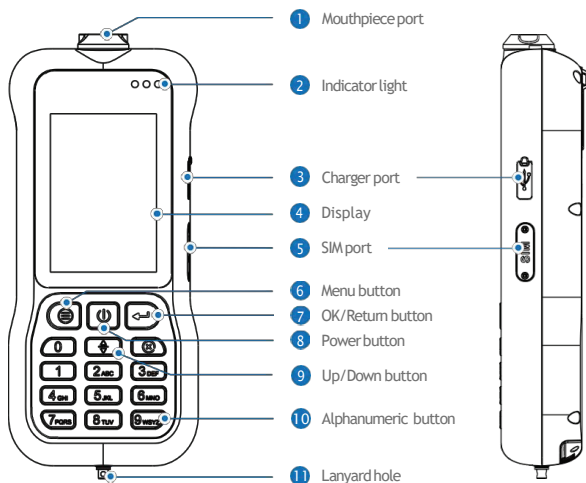
INTRODUCTION

1. This user manual has been prepared carefully. If you have found that there is something incorrect in this manual, please give us feedback, we will improve it later.
2. Please read this operating manual before use!
3. The performance of the device depends on the operation and maintenance.
4. Calibration and maintenance must be carried out by authorized person according to the requirements of local government.
5. Maintenance can only be done by authorized service personnel.
6. The sensor used in the device contains chemical material and must be disposed according to local regulations.

PRODUCTION FUNCTION & APPLICATION

1. **SBAA-02 (R)** is new generation alcohol analyzer. The last technology has been used in this device.
2. **SBAA-02 (R)** has used fuel cell sensor which doesn't react with the other substances.
3. While a person is blowing into it, the device controls and determines the volume of expired air.
4. This ensures that only deep lung air which reflects the blood alcohol content correctly can be sampled and analyzed.
5. The patented technology of Passive Mode can be used for drink and drive screening.
6. **SBAA-02 (R)** is easy to use with three buttons.
7. **SBAA-02 (R)** with touch screen allows to input many kinds of messages.
8. **SBAA-02 (R)** is designed with thermal printer, easy to save printing results.
9. The device is equipped with 100,000 data memory and USB port. The data can be printed out through a printer or managed in PC. The PC software allows user to take maintenance, calibration and the device settings.
10. The **SBAA-02 (R)** has been developed for the fast and accurate measurement of the alcohol level in one person's breath. It is suited for professional alcohol detection.
11. Passive Mode is suitable for fast screening, active mode is used for evidential testing.

PARTS INSTRUCTION

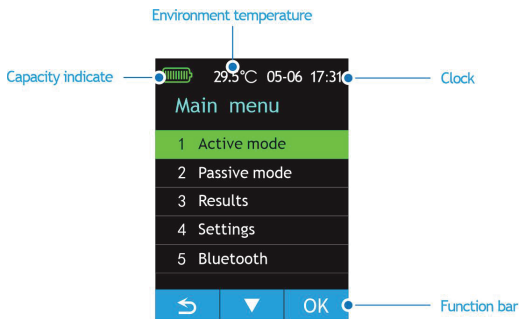


SYMBOL

Symbols	Description	Symbols	Description
	Capacity indicate		Attention
17:31	Clock		Date of manufacture
	Up/Down button		Manufacturer
	Menu button	PN	Product number
	OK/Return button	SN	Serial number
	Power button		Rule of discard about product

MAIN MENU

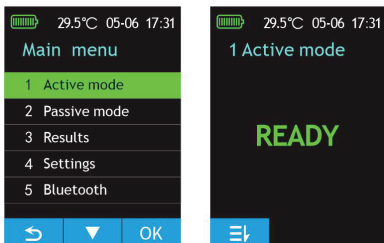
1. After it is switched on, the device automatically comes to the "Active mode".
2. After the "Menu" button has been pressed, the following menu options appear on the display:



3. Press "▼" button, you can choose submenu.
4. Press "OK" button, you can enter into the submenu interface to operate and set.
Warm tips: This device is with touch screen, you can enter into the menus and operate by touching the screen.

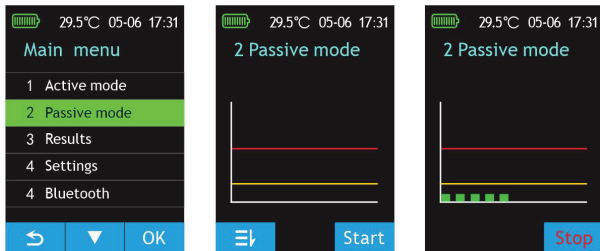
ACTIVE MODE

1. In active mode, user can take active measurement, the tester can blow to the device with mouth pieces and get the active measurement result.

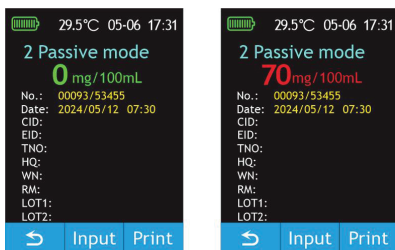


PASSIVE MODE

1. The purpose of the passive mode is to measure the alcohol in ambient.
2. This mode didn't serve as an accurate measurement. The measurement results can only indicate whether there is alcohol in air. Only active mode will have an accurate reading.
3. In Passive mode, put the device close to the testee's nose or mouth, request them to blow directly into the device and press "Start" button, the device will sample and analyzed.



4. The default sampling time is 5 seconds, and authorized users can also set it between 5 and 15 seconds in "Menu/Settings/Service/Blow Settings"
5. After the measurement, the concentration value will be displayed on the screen.



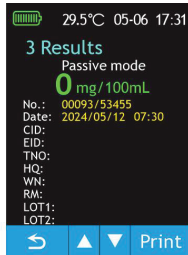
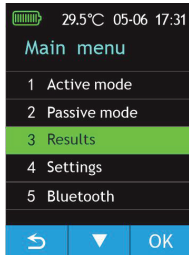
Attention:

The sensitivity and accuracy of the device is effected by the distance between the device and the nose or mouth.

Please make sure the inlet of the device should be close enough to the nose or mouth , no excess 10 cm. Otherwise, the test result can not serve as an accurate measurement and basis of punishment. For evidence use, please use breath alcohol analyzer with mouthpiece to test and get accurate reading.

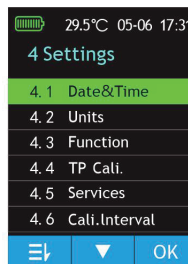
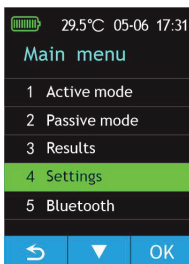
RESULT

1. The history data is stored in "Result", including history testing results, date and time, record no.
2. User can find every measurement result in this menu.
3. The last measured value can be seen on the display when pressing "OK" button.
4. Press "▲▼" button, the next and previous record will be displayed.
5. The user can reach and print every record in this menu.



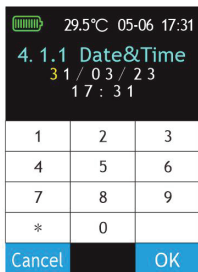
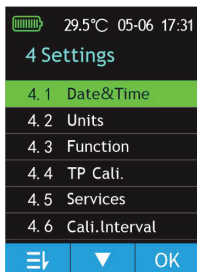
SETTINGS

- 1 On the "Settings" menu, you can change or define some function of the device.
- 2 After select "Settings" and press "OK" button, it will go to next level menu.

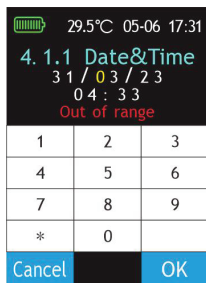


DATE & TIME

1. Select "Date & Time" and press "OK" button to enter the time modify interface.



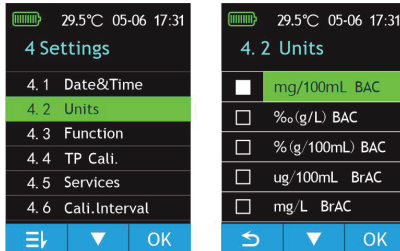
2. User can adjust the date and time by touch screen.
3. In above picture, it present date and time: 2023.3.31 17:31.



4. If the digit exceed the range of system, "Out of range" will be shown on the display. Time and date cannot be changed.
For example, when you input "2" in the first number of the month, "Out of range" will be shown. Please input the right month number such as "0" or "1".
5. If every number is in the range, but the whole date or time exceed the range, when you press "OK", "Out of range" will be shown.

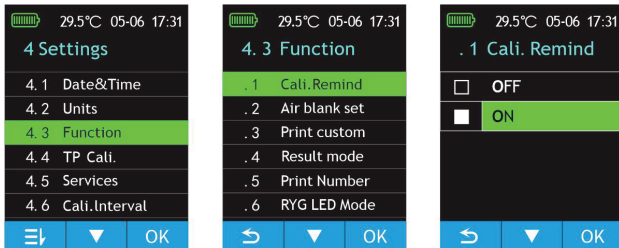
UNITS

1. In the "Units" menu, user can choose the unit by touching the screen. Press "OK" button to confirm.

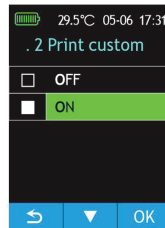
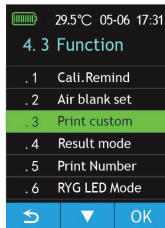
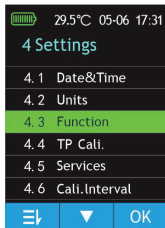
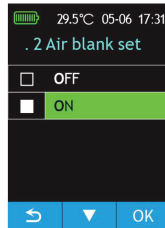
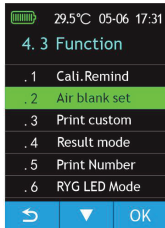
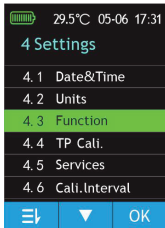


FUNCTIONS

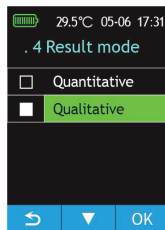
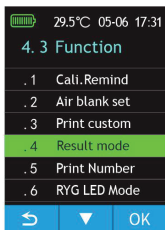
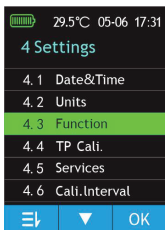
1. In the "Cali. Remind" menu, user can choose turn on/off this function.
2. The device must be calibrated every 12 months. When turn on the Cali. Remind function, it will remind calibration before next calibration expire.



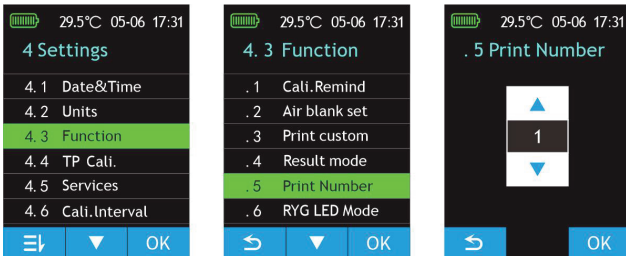
3. In the "Air blank set" menu, user can choose to turn on/off air blank.
4. After turn on this function, the device will typically do air blank test before active testing.



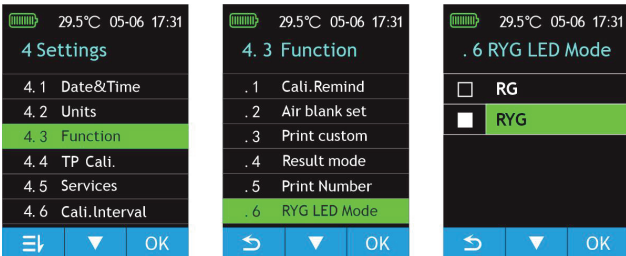
6. Quantitative : Choose "Quantitative", the specific alcohol concentration value will be displayed in the passive mode results
7. Qualitative :choose "Qualitative", only "Alcohol" and "No alcohol" will be displayed in the passive mode results. Not the specific alcohol concentration value



8. When user use the print function, one copy is the default amount. In the " Print Number" menu, user can change the number of prints.

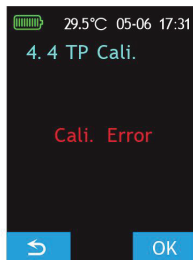
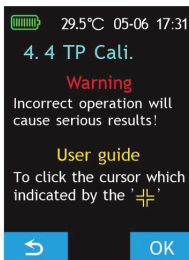
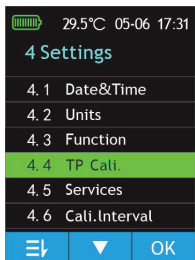


9. In "RYG LED Mode" menu, users can choose to turn on two-color or three-color indicator lights. Select "RG", Red or green indicator light will be on. Select "RYG", Red,yellow or green indicator light will be on.



TOUCH PANNEL CALIBRATION

1. In the "Units" menu, user can choose the unit by touching the screen. Press "OK" button to confirm.

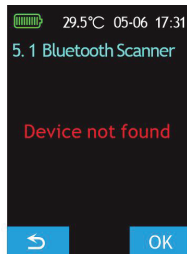
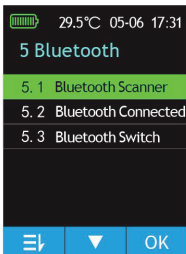
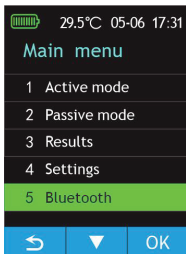


Attention:

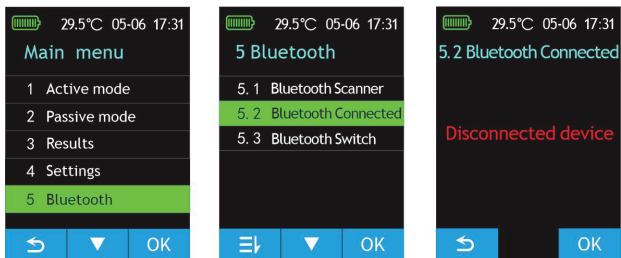
Failure to click the cursor point accurately may cause big error."TP Cali. Error" will be show non the screen. It is necessary to calibrate again.

BLUETOOTH

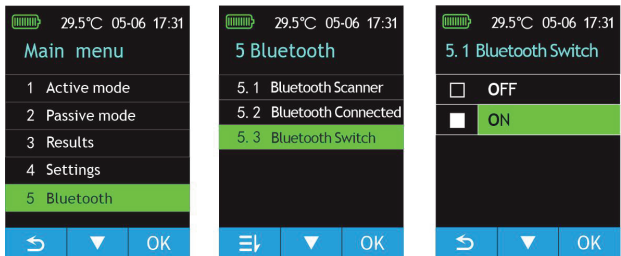
1. After select "Bluetooth" menu, press "OK" button, it will go to next level menu.
2. Select "Bluetooth Scanner" and click "OK" to scan nearby Bluetooth devices.
User can connect to the required device.
3. If no Bluetooth device is scanned, "Device not found" will be displayed on the screen.



4. In "Bluetooth Connected" menu, users can check connection status.



5. In "Bluetooth Switch" menu, user can turn on/off the Bluetooth function.



INSTRUCTION FOR OPERATION

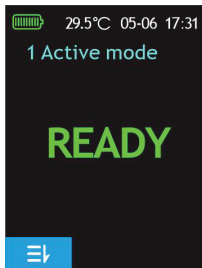
SWITCH ON

1. Press the power button for 1 second to turn on the device. There will be a self test after switch on.
2. The device name, Logo, and software version will be on the boot interface.



TAKE MEASURE WITH ACTIVE MODE

1. After the device has completed the self-test, it is ready for measuring.
2. The display will show "Ready", the testee need to blow to the device by mouthpiece.



In active mode, the device can measure the alcohol with high accuracy. It is ensured that only deep lung air is sampled by the sensor in this mode.

Attention

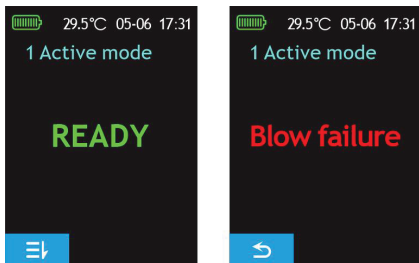
1. Residual alcohol in the mouth will cause a wrong reading during the measurement. It should be clear that the person to be tested has not drunk any alcohol just before measurement is taken. Otherwise, the test should wait at least 15 minutes.
2. Smoking will destroy the device and lead to wrong reading. No smoking before measurement. Or the person should wait at least 2 minutes after smoking.

INSERT THE MOUTHPIECE

1. The mouthpiece has to be inserted into the mouthpiece port before blow in active mode.
2. The mouthpiece can only be used one time.

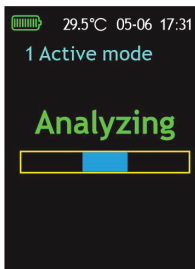
SAMPLING

1. If select "Active mode", you will hear beep sound during blow, and it will not stop until blowing enough volume.
2. If blowing failure, "Blow failure" will be shown.



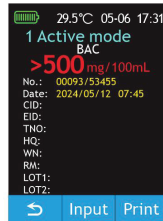
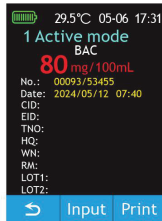
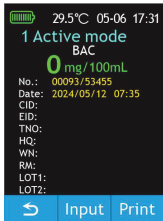
AUTOMATIC ANALYSIS

1. After sampling, the system will enter into automatic analysis.
2. The time of automatic process is decided to the concentration of the breath alcohol, the time is longer if the concentration is higher.



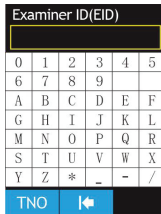
MEASUREMENT RESULT

1. After the analysis is finished, it will display the measurement result.
2. If the measurement result exceed the measurement range, (0-550mg/100ml), it will display ">550 mg/100ml".

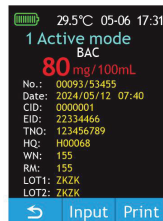
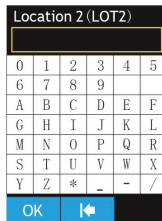
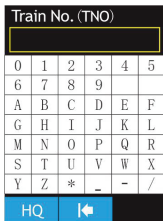


INPUT MESSAGES

1. User can input Examiner ID, Train No., Department, Witness Name, Remarks, Location on the device.
2. Below screen is the input area, click character by touching the screen.



3. This character sheets includes 10 numbers, 26 letters and 4 special characters.
4. If wrong input happen, touch the “←”, and replace with a correct one.
5. After “Examiner ID” finished, touch the “TNO”, entering into the “Train No.” interface.
6. After “Train No.” finished, touch the “HQ”, entering into the “Department/HQ” interface.
7. If all the information finished, touch “OK”, system will get the result.



SWITCH OFF

1. Press "Power" button for 3 seconds, SBAA-02 (R) will turn off, screen show as below:



2. SBAA-02 (R) will be power off automatically after 2.5 minutes without use

ERROR AND REMEDY**Passive Mode**

Error Message	Causes	Remedy
No drink but alcohol is detected	Alcohol residue	Wait 15 seconds and re-test again.
In passive mode, alcohol is detected, but in active mode it is "0" reading test	Active mode will show "0" if actual reading is less than 0.03mL/L	Test again
Drinking but "0" reading in passive mode	Alcohol sensor is broken; Sensitivity decrease; Ambient temperature is too low; Too far from the mouth; Blow inlet is blocked	Exchange alcohol sensor; Re-calibration; Adjust the distance ; Check blow inlet
No power after several hours using	Battery defective	Use a new battery

Active Mode

Error Message	Causes	Remedy
Blow failure	Blow is interrupted or no up to 1.0L	Blow again and reach to 1.0L
Calibration error	The reading is too low or too high during calibration	Re-calibration
Calibration is expired	Calibration is overdue	Re-calibration

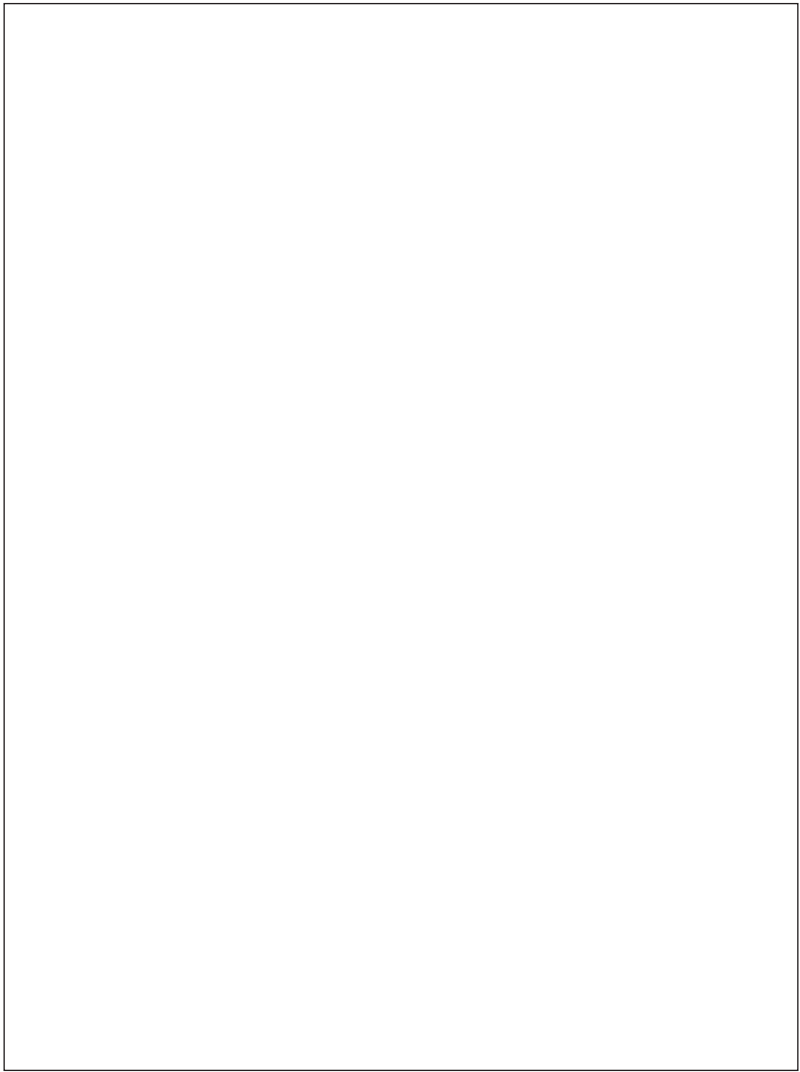
Big difference between two measurements	Alcohol residue	Test again after 5 minutes. Need to wait 15 minutes after drunk.
Alcohol can be identified by nose, but the reading is "0".	A reading below 0.03mg/L may show "0"; Device is broken	Use another device to test. Or do blood test. And send device to service center.
Sampling system error	Sampling system is defective	Make another measure, if this error appear again, get help from service people
Time error	Real time clock is defective	Contact with the service people if it happen again.
Temperature error	Ambient temperature is out of range	Please go to suitable temperature place for test.
Memory error	Memory can not be read or write	It's possible that new data can be stored, and the old data can not be read out. Take another test, if it appears again, get help from service people.
Memory full	Insufficient space The memory is full	Delete some data get help from service people

DO

1. For an accurate indication of blood alcohol concentration, please test at least 15 minutes drinking.
2. To maintain the accuracy of alcohol tests.
3. It is highly recommended to recalibrate the device every 12 months.
4. Calibrate the sensor once the tester CLA marks "0 days".
5. Please use a soft wet cloth and natural detergent to clean the surface.

DON'T

1. Do not allow smoke into the tube, which may damage the sensor.
2. Clean the surface with ethanol.
3. Do not use an unsuitable charger, otherwise it may cause damage.
4. Avoid any fall or strong object or pressure.





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