

CDP 7000

**FAST SCREENING
ALCOHOL TESTER**

OPERATION MANUAL

**PLEASE READ THIS MANUAL CAREFULLY BEFORE
USING THE TESTER**

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1. INTRODUCTION

The **CDP 7000 breath tester** is our latest development in portable breathalyzers for Fast screening on the road or other situations. This device adopts as main component the most novel and hi-tech fuel-cell sensor. You will be able to check, with great precision and speed, the alcohol concentration level on a user's breath. The **CDP 7000 breath tester** presents a compact keyboard and an intuitive and easy-to-use menu that makes it precise and practical. The color LCD screen is very clear, allowing correct day and night vision. It includes a high light alarm lamp and head lamp for the user's convenience. It is lightweight, and the blowing nozzle assures proper hygienic conditions during testing.

This breath tester is ideal to carry out alcohol level tests at the start of the day or to help prevent accidents and encourage safe driving conditions.

Main features:

- Adopts advanced 16 bit low power consumption.
- Fuel-cell sensor, high reliability and accuracy.
- Color easy-read LCD indication.
- Light indication function, matrix type warning lamp.
- Simple keyboard operation.
- Shows real time temperature and date.
- Two alarm levels: acoustic and visual.
- Low battery automatic power off function
- Blowing time may be adjusted by user.
- Measurement unit and blowing time adjustable by user.
- Short warm-up time, fast and accurate response.
- Designed so there is no contact with the user's mouth. The nozzle has been designed to gather the air sample comfortably and correctly.

2. ACCESSORIES

Please, check that the box contains all components and accessories.

- **CDP 7000 Breath Tester**
- User manual
- Inspection report

3. STRUCTURE

3.1 Appearance

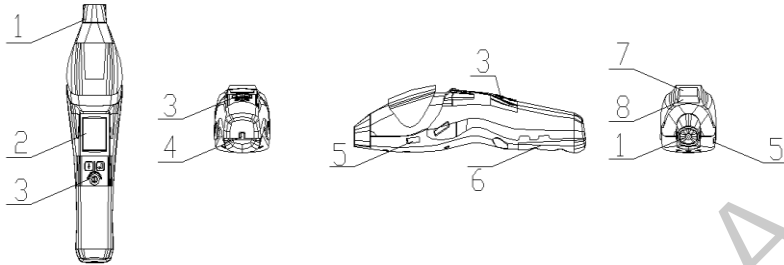


Fig. 1

1	Blowing nozzle	4	Sling	7	Head lamp
2	Screen	5	USB Port (reserved)	8	Alarm lamp
3	Keyboard	6	Battery cover		

3.2 Display

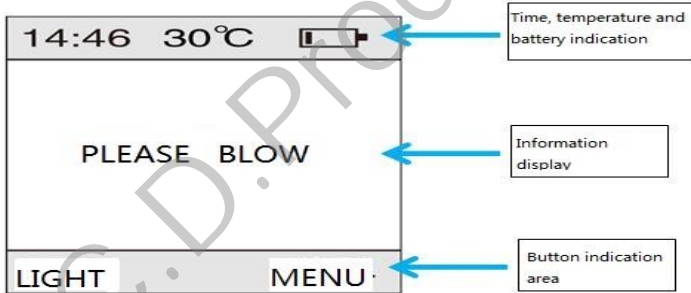







Fig. 2

4. POWER ON/OFF BUTTON

4.1 Power On

Press the button  during 1 second; the system will automatically begin the self-check process. After emitting an alarm beep, the display will show the breath tester model and version. The main menu will appear once the self-check concludes. (See chart 2).

In the main menu, press the left button  and the head lamp will light on. Press the left button again , the head lamp will light off and the red alarm light will flash. Press the left button again , the red light will light off and the green light indicator will flash. Press the left button  again and the lamp will turn off.

Important: The red and green lights will only flash when the main menu is in testing mode. They can also be used as additional lights if their use is required.

4.2 Power off

4.2.1. Manual power off

To turn off the unit, press and hold the  button for 3 seconds.

4.2.2. Power saving





This breath tester includes a power saving function. If the main menu remains on but the unit is not used during 3 minutes or more, the breath tester will automatically power off.

4.2.3 Low battery

The breath tester will automatically power off when the batteries die. Please replace the batteries with new ones or recharge them (if they are rechargeable) as soon as possible.


The battery icons indicate:


Table 1.

	Full battery		Low battery
	Battery partly consumed		Battery shortage, please change or recharge the batteries.

5. TESTING


When the breathalyzer is turned on, the screen will show the main menu (see Fig. 2). Take a deep breath and then blow into the tester through the blowing nozzle, smoothly and evenly until the buzzer stops and you hear a “pop” sound. Then stop blowing. After blowing, the screen will show “processing...” which means the tester is analyzing the sample. The test result will appear on the screen once the analysis ends. This will include the type of gas and concentration. Meanwhile, the lamp light will flash. The results will appear in one of three different ways:

- 1) Normal: If the “normal” message appears above the concentration value, it means that the test result is below the alarm level set before the test procedure. If the result is “normal”, the green light will also flash.
- 2) Drink: If the “drinking” message appears above the concentration value, it means that the test result is above the alarm level set before the test procedure. If this happens, the breathalyzer will emit an acoustic alarm and the red light will flash.
- 3) Passive testing: If the person that should carry out the test does not want to cooperate (the blowing air pressure is insufficient or blowing time is too short) it is possible to carry out a passive test. Introduce clean air in the blowing tube to clean any alcohol residuals before carrying out the test. When the screen shows the message “Please blow”, allow the user to blow and the press the  button. The screen will show the result of the passive test after performing the analysis. If the user cannot blow, allow clean air into the blowing tube for a few seconds to eliminate any prior alcohol residuals, then place the blowing opening near the


user's nose and press the  button. The screen will show the result of the test once the analysis has concluded. Since a precise result requires actual exhaled air, passive tests should be approximate and provisional conclusions. These tests should not be considered definitive in a formal inspection.

Important: After carrying out a test, you may press any button to return to the test menu, you can also program the "test result display time". This parameter will allow you to set how long the test results will be displayed on the screen before automatically returning to the test menu to continue performing controls. If the person that takes the test is appears very drunk, we recommend that you allow clean air into the blowing tube in order to eliminate possible residuals from previous alcohol tests, allowing more precise subsequent tests.

6. SETUP

In the main menu, press the right button  to display the menu.
This submenu includes:





CALIBRATION DATE reminder
DATE setup
TIME setup
MEASUREMENT UNIT setup
ALARM setup
BLOWING TIME setup
RESULT TIME setup

Select any category by pressing the left button , then press the right button  to go to the next category.

6.1. CALIBRATION DATE reminder

In this menu, you may see the days left until the next recommended calibration.




6.2. DATE-TIME setup

In the date-time setup menu, press the left button  to choose the category. The item selected will appear in blue. Then press the right button  to change the value. If you press the right button  the values will change one by one. If you press and hold the button, the values will change continuously. Press the  button to exit the date setup menu once you have finished. If the value has been changed, it will be automatically saved when you exit the menu. The save interface will appear as a reminder.




Important: The first row of numbers shows year-month-day from left to right.

The second row of numbers shows hour-minute from left to right.

6.3. MEASUREMENT UNIT setup

In the measurement unit setup menu, press the left button  to choose the unit and then press the right button  to save the settings. Press the  button to exit the menu. The new measurement unit will be automatically saved when you exit this menu if a change has been made. After changing the unit, the alcohol concentration alarm levels will be automatically updated and the conversion will also be done automatically.

6.4. BLOWING TIME setup

You may change the blowing time. Press the left button  to change this value, and press the right button  to save the change. Press  to exit when you have finished. The new blowing time will be automatically saved when you exit this menu if a change has been made. If the value has been changed, it will be automatically saved when you exit the menu. The save interface will appear as a reminder.




Suggestions:

- 1) Set the blowing time within a broad margin, so the residual air in the blowing tube is eliminated completely and the test is more accurate.

- 2) The distance between the user's mouth and the blowing opening should be less than 3 cm during the test, so the air is not diluted and the result will be more exact.

6.5 TEST RESULT DISPLAY TIME setup





The display time is how long the result will appear on the screen. To improve the performance and efficiency of the breathalyzer, the result will be shown during a brief period of time (which may be modified). The breathalyzer will then automatically return to the test mode to continue with the tests. If this auto-return function is not required, you may set the display time to “unlimited”. In this case, the result of the test will appear until you press any button. You will then return to the test mode.

Press the left button  to select how long you want the result displayed. Press the right button  to save the change. Press  after setting the value to exit the display time menu. If the value has been changed, it will be automatically saved when you exit the menu. The save interface will appear as a reminder.

7. TROUBLESHOOTING

Table 2.

Fault Description	Possible Reason	Solutions
Unable to turn on the tester	Low battery	Change batteries
	Battery polarity reversed	Refit the batteries
Inaccurate testing result	Expired sensor	Contact manufacturer to replace the sensor
	Blowing distance inaccurate	Make sure tester's mouth is close to the blowing opening
	Long time no calibration	Calibrate the tester
Wrong Display Time	Wrong time setup	Reset the time
Battery not durable	Battery capacity limited	Alkaline battery or rechargeable Ni-Cd battery will work better

Important: This breathalyzer includes four AA batteries of 1.5 V. You may also use 4 Ni-Cd rechargeable batteries with a voltage of 1.2 V and normal capacity above 2000mA for durability purposes. If you select Ni-Cd batteries, the battery type must be changed in the breathalyzer program or the battery indication will be incorrect. To do this, power on the unit, then press  and the right button  simultaneously during one second. You will see the battery and voltage setup menu. Check the nominal voltage on the battery, then press the right button  to confirm the selection. You may now save the new setup. Press  to exit this menu.

8. MAIN TECHNICAL INDEXES AND PARAMETERS

Table 3.

Model	CDP 7000
Sensor type	Fuel-cell alcohol sensor
Measurement range	0 ~ 2.000mg/L (0 ~ 440mg/100ml)
Warm-up time	Warm-up not necessary
Response time	<1s
Continuous working time	100-2000 times (depends on battery capacity)
Dimensions	LxWxH: 284x68.5x74mm
Net weight	About 400g (with 4 batteries)
Recommended calibration periods:	6-12 months

9. CARE AND MAINTENANCE

- ✓ Please read this manual carefully and follow all instructions before operation.
- ✓ Avoid hitting or dropping the unit.
- ✓ If necessary, use a humid cloth to clean the unit. Do not use water, solvents or conventional cleaners which could damage the unit.
- ✓ If the breathalyzer is used with very low batteries, the results could be erroneous. Always use the batteries recommended by the manufacturer.

- ✓ The calibration of the tester should be done every 6 months to 1 year to ensure the accuracy of the tester. Consult your distributor or the manufacturer.
- ✓ For correct storage, always store the breathalyzer in a dry and well-ventilated place.
- ✓ To assure reliable measurements, the person performing the test should preferably abstain from drinking, eating or smoking for at least 15 minutes before blowing.

WARNINGS

1. Do not drive or operate machinery if you suspect or have reason to suspect your behavior could be affected by an alcohol intake, even if the test indicates a level of alcohol below 0,25 Mg/L in air.
2. If you drive or operate machinery after drinking alcohol, you do so at your own risk. There are no express or implicit guarantees in relation to the use of the device.
3. Liability is only limited to the cost of the unit. The warranty has a duration of 6 months from the unit's date of purchase with regard to any manufacturing defects. If you require technical support (warranty and operation questions), please contact the CDP Customer Service Department at 34-902104060 or visit our website: www.cdpsa.com where you will find further guidelines and instructions.

Other factors (breath, tobacco, quality of the air etc.) may affect the measurement, so please use these values as a reference only.

CONTACT DATA



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