Blow & Go

CDP 4500

Coin-operated Alcohol Breath Tester

1. Description

The **Blow & Go** coin-operated Alcohol Breath Tester is designed to measure your alcohol concentration level. With an advanced fuel-cell sensor, this device offer high sensitivity and is extremely accurate. Its easy testing process and complete functions make it versatile. When your alcohol blood content exceeds the preset alarm level, it will send an alarm warning and show the result directly and clearly on the LCD digital display.

2. Main Technical Data

Model	Blow & Go
Sensor type	Fuel cell sensor
Working Voltage	AC110V～AC220V, 50/60HZ
Working Current	≤15mA
Environment	Temperature：-10ºC～50ºC；Relative humidity：≤95% No Dews
Response Time	< 8s
Test Range	0.000～2.000mg/L（0～440mg/100mL, 0.000～4.000g/L, 0.000～0.400%BAC, 0.000～2.000‰BAC）
Warning level	Warning level：0.090mg/L；Danger level： 0.250mg/L
Accuracy	±0.005% at 0.05%BAC
Warning method	Audio and light
Display	Four digits LCD display. Test process and result are shown with red, green, and yellow indicator lights
Dimension	lxwxh,mm:250×105×400
Indication manner	mg/l, mg/100ml, g/l, %BAC, ‰BAC optional
Coin for single time	0 —— 15 (For 0, the unit can be tested without a coin)
Coin diameter	20mm – 28mm
Coin Thickness	1.2mm – 2.5mm
Coin capacity	200 units
Straw capacity	200 units（¢≤7mm)

3. Installation Guide

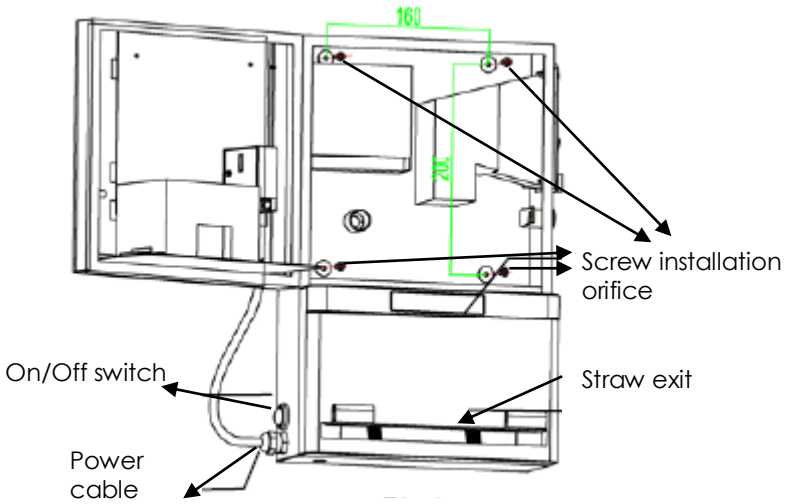


Photo 1

First find a suitable place to install the unit. Then use bolts to fasten the device on the wall according to Photo 1. Note the distance and measurements.

4. Test Unit Setup

● *Note: Please cut off the power supply before this step.*
You may set the unit format in which to show the alcohol concentration levels using dial switch 2 inside the machine. The format options are: mg/l, mg/100ml, g/l, %BAC and ‰BAC. Make sure the unit chosen appears on the front panel. The test unit is set by the first, second and third switches. This means that the switch on the top is 1 and the switch on the bottom is 0. (Note: switch number 4 is not used and an X will appear on the machine). For example, in Picture 2, both the first and third switch are at the bottom (they both mean 0); the second switch is on the top (it means 1). So, according to Table 1 shown further below, the current unit would be g/l. The factory-set default unit format is Mg/L.

Photo 2

Table 1

A	B	C	D	Unit
0	0	0	X	mg/L
0	0	1	X	mg/100mL
0	1	0	X	g/L
0	1	1	X	%BAC
1	0	0	X	‰BAC

5. Setting the coin quantity to carry out a test.

● *Note: Please cut off the power supply before operation.*
The number of similar coins required is set by dial switch S1 located inside the unit. This means that the switch on the top is 1 and the switch on the bottom is 0. Setting range from 0-15 units.
For example, in Photo 3, both the first and third switches are at the bottom (they both mean 0); the second and fourth switches are at the top (they both mean 1). So, according to Table 2, in this example you would need 5 coins to perform the test. One (1) coin is the default setting1).

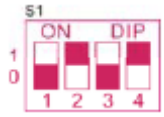


Photo 3

Table 2

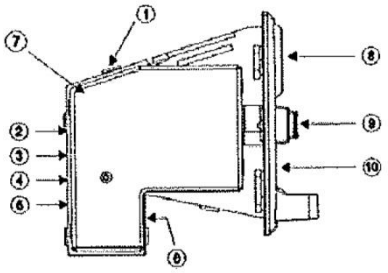
A	B	C	D	Coin quantity
0	0	0	0	0
0	***0***	***0***	***1***	***1 (default is 1 coin)***
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	0	0	0	8
1	0	0	1	9
1	0	1	0	10
1	0	1	1	11
1	1	0	0	12
1	1	0	1	13
1	1	1	0	14
1	1	1	1	15

6. Adjusting the electronic coin selector:

See video at this link: http://youtu.be/Sn1ieVK0UL4

How to configure the coin model

Turn on the unit, open the front part of the case, you will see LED (7) flashing. Press the setup button (5) during two seconds and then release it. The LED (7) indicator on the top left will change from red to green. Press the setup button again during two seconds and then release it. The LED (7) indicator will change from green to red and it will then flash.
You are now in the Coin Setup Mode. Please insert 20 coin models in the insert coin slot (we recommend inserting coins of different years and versions, do this both quickly and slowly to imitate the normal way users would do it). When you have finished, the Light indicator will remain on constantly.



BUTTONS AND FUNCTIONS

NAME	FUNCTION
(1) Segment 1 switch	Differentiates accuracy: exact, normal, loose.
(2) Connector 4 pins	
(3) Segment 2 switch	Differentiates between NO and NC.
(4) Segment 3 switch	Coin entry speed: fast, average speed, slow.
(5) Setup button	Button to make adjustments.
(6) Connector 2 pins	Electromagnetic strobe.
(7) LED Indicator	To configure/adjust coin.
(8) Coin entry	Coin entry.
(9) Coin return button	Press the button to retriever the coins blocked in the insert slot.
(10) Coin output	Coin output.

7. Test procedure

7.1. Mount the device on the wall securely; connect the power cord, then press the switch button on the side.

7.2. Press the On/Off switch on the side of tester. When the tester is on, it will begin to initialize. The warm-up begins when the "Wait" indicator light flashes. The test cannot be performed yet. About 6 seconds later, the initialization process concludes and testing can begin. In the meantime, the <INSERT STRAW> indicator light will turn on, and the <INSERT COIN> light will flash and prompt you to insert a coin and start testing.

7.3. Insert coin: The coin may be inserted when the ⊲INSERT COIN⊳ led flashes. The quantity of coins needed and the coin value will have been already set up according to the instructions above. If several coins are required, the tester will emit a tone for each additional coin and show the necessary quantity remaining. When the number of coins needed is reached, the <INSERT COIN> light will turn off, and the <BLOW> signal will flash. At this point you may begin testing.

7.4. Take a straw from the straw deposit box. Insert the straw. Take a deep breath, then blow into the tester continuously, and don't stop until you hear the prompt tone. If you stop blowing during the test, the device will emit a "di----di di" sound and will inform that the blowing is incomplete. You should blow again until the blowing concludes when the "di---di di" sound stops (approximately lasts 6 seconds).

7.5. After a few seconds, the result on the LCD screen shows the alcohol concentration in your body when the test finishes.
If the result is lower than the warning level, a soft "di-di di" sound will be heard and the "OK" indicator light flashes in green colour.
If the result is equal or above than warning level, the "di-di di" sound will be heard and the "Warning" indicator light flashes in yellow colour.
If the result reaches a danger level, you will hear a stronger "di-di di" sound and the "Danger" indicator light flashes in red.

7.6. The result will be displayed on the screen for several seconds, and then the LCD returns to its normal wait state. Another test can be performed at this time.

8. Usage counter

When the tester is switched on and also after every test, the usage counter shows - for 1 to 2 seconds - the accumulated number of tests for the sensor module. Every sensor module will require replacement after 1000 tests. Please contact your distributor to acquire the new sensor parts.

9. Calibration

This high-tech sensor-module design does not require complex calibrations. You only need to change the module when the tester flashes the number **0000**. Remember that each sensor module can be used 1000 times.

- Turn off the tester. Open its front panel. (See Picture 8). You will see a yellow shell with a small tube and white connector. This is the sensor module.
- First, disconnect the small tube and White connector by pulling gently. Then unscrew the aluminum knob located at the back of the module shell by rotating it in a counter-clockwise direction to remove the sensor module.
- You may now insert the new sensor module. First screw the knob in a clockwise direction, and then connect the small tube and the white connector. It's now ready for use.

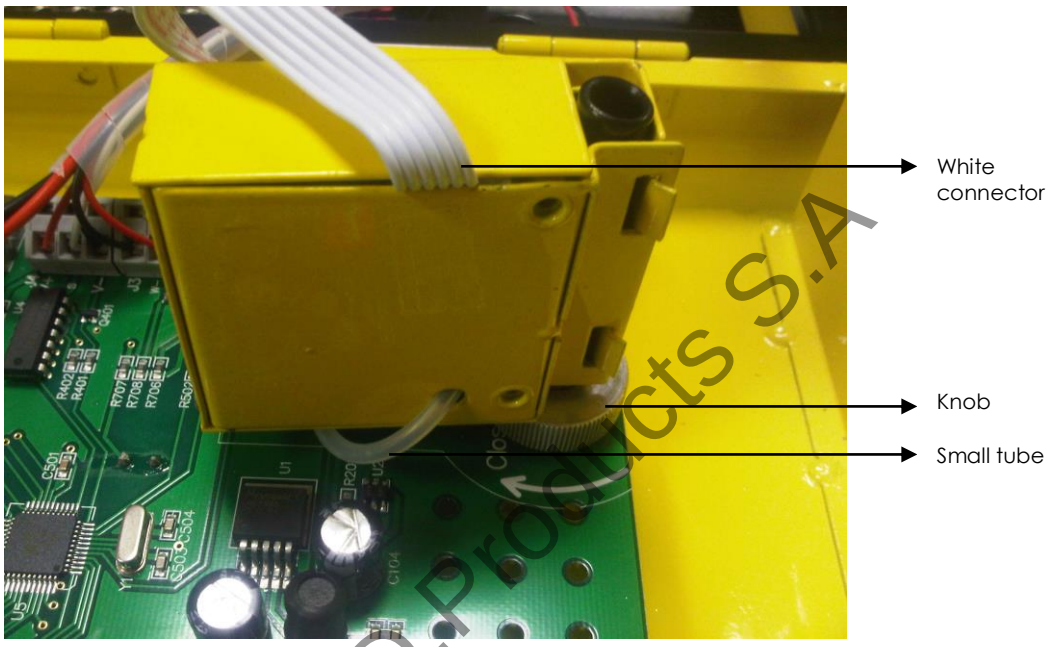


Photo 8

10. Recommendations

- Avoid dropping or hitting the unit.
- *Very Important:* To avoid damaging the sensor and obtain accurate results, please wait at 15 minutes after drinking before taking the test, or rinse your mouth with water or a non-alcoholic beverage.
- If the unit is stored for a long period of time, the first result obtained may be inaccurate. In this case perform several preliminary tests.
- Do not store the tester in an environment near corrosive gas (chlorine, etc) or in an area with excessive humidity or smoke.
- The life of the sensor is over 2 years under standard usage and normal operating conditions; remember the module must be changed after 1000 tests.

11. Troubleshooting

Fault	Possible reason	Solution
No display on LCD	Unstable power cord connection	Plug in again
	Circuit fault	Contact distributor
No response to gas detection	Warm-up has not concluded	Wait until the warm-up concludes
	Circuit fault	Contact distributor

12. Contact data

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