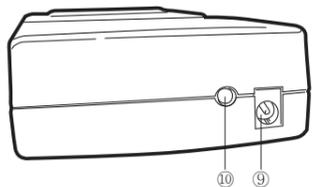
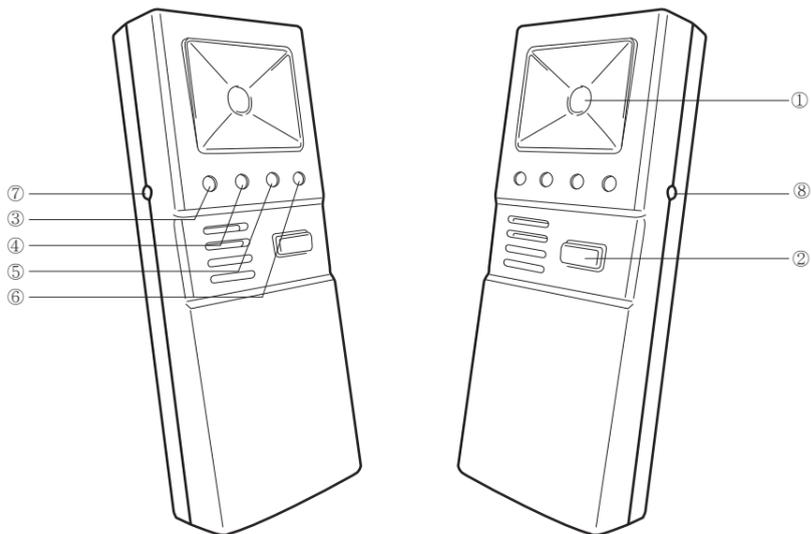


AL1100F USER'S MANUAL

ALCOSCAN AL1100F is alcohol detector with Fuel cell sensor. It is useful for fast checking a small quantity of alcohol component in the breathing gas of driver. And 2 functions, Active and Passive operations enable checking subject's alcohol concentration at any circumstances.

Components



- ① Sampling hole
- ② Power Button
- ③ ⑦ ⑧ Indicating Lamp
- Red light: Low battery
- Green light: Ready
- Orange light: Analyzing, Warming up
- ④ Result display (Green lamp): Pass
- ⑤ Result display (Yellow lamp): Low
- ⑥ Result display (Red lamp): High
- ⑨ 12V DC jack for charging
- ⑩ Lamp for checking battery charging

Contents

Breathalyzer, 12V Cigar Jack, Adapter, Hard case and User's manual

How to use

1. Turning on the power

Press the power button. The unit will start up process and automatically re-stabilize the alcohol sensor.

Warming up

Indicating lamp ③ ⑦ ⑧ = Orange light with one beep sound.



Ready

Indicating lamp ③ ⑦ ⑧ = Blinking green light with two beep sound.



2. Blow into the unit

Close subject's mouth to sampling hole ① about 2~3cm, blow one deep breath for at least 2 seconds.

***If you press the power button while subject's blowing, passive mode will be operating.**

Analyzing

Indicating lamp ③ = Orange light with one beep sound Please wait.



3. Reading

The test result is indicated on the lamp, ④⑤⑥⑦⑧.

1) Pass

Range: Less than 0.02%BAC or 0.20‰ or 0.10mg/l BrAC

Result lamp ④ = Dark Green light

Indicating lamp ⑦ ⑧ = Green light with one beep sound.



2) Low

Range: 0.02~0.05%BAC or 0.20~0.50‰ or 0.10~0.25mg/l BrAC

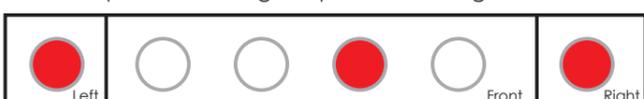
Indicating, Result lamp ⑤ ⑦ ⑧ = Orange light with beep sound interval of half a second.



3) Fail

Range: Greater than 0.05%BAC or 0.50‰ or 0.25mg/l BrAC

Result lamp ⑥, indicating lamp ⑦⑧ = Red light with continuous beep sound.



4. Retesting

After showing test result, AL1100F will be automatically changed to blinking green light with two beep sound and ready for retesting



5. Power off

Press the power button for 3 seconds.

*** If device is not working until 4 minutes, device will power off automatically**

Specifications

Indication of B.A.C. (Blood Alcohol Content)	Three steps of - PASS: 0.00~0.02%BAC or 0.00~0.20‰ or 0.00~0.10mg/l BrAC - LOW: 0.02~0.05%BAC or 0.20~0.50‰ or 0.10~0.25mg/l BrAC - FAIL: 0.05%BAC~ or 0.50‰~ or 0.25mg/l BrAC~
Accuracy	Over 80% of detecting rate at 0.03%BAC, 0.30‰, 0.15 mg/l BrAC
Sensor	Fuel cell type alcohol sensor
Mouthpiece	No need to use
Power	Use rechargeable lithium-ion battery or 12V/1A Adapter
Warm up time	Within 10 seconds (It can be affected by using temperature)
Response time	Within 5 seconds (It can be affected by using temperature)
Temperature	Storage Temperature: -10°C to 60°C Using Temperature: -5°C to 40°C
Dimension	140(height) × 56.5(width) × 25(thickness) mm
Weights	140g

Note

1. Active mode & Passive mode

AL1100F has two mode of operation- Active mode & Passive mode

Active mode: Blowing into the sampling hole until sampling is ended. Breath sampling is done automatically. Follow how to use steps 1~3.

Passive mode: While subject's blowing into AL1100F, press the power button. Breath sampling is drawn forcibly to analyze. This passive mode is used for unwilling to blow or breath sampling is not enough to analyze.

And this mode can not be showing reliable result compare to Active mode result.

2. Low battery indicator

Indicating lamp ③ ⑦ ⑧ will be red to indicate the low battery. AL1100F should be recharged before retesting.

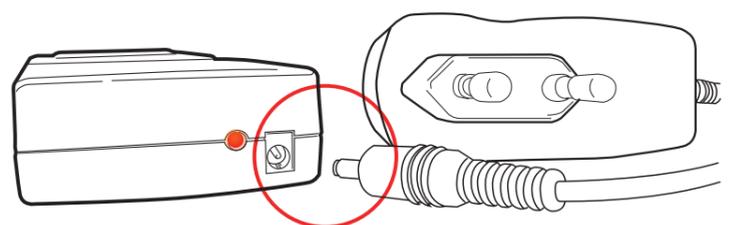


3. How to charge batteries

If the below lamp (indicating lamp ⑩) is turned into red, device need to be recharged.

Please charge the device through 12V 1A adapter which manufacture supplied only connecting to bottom of the device.

It takes about 4 hours to full recharge.



Warnings

- a. Wait at least 20 minutes after eating or drinking before testing. Alcohol remaining in the mouth, or even excess saliva, may interfere with testing. This includes alcohol-based mouthwash or similar products.
- b. Avoid testing in high wind or enclosed spaces. Poor ventilation may also lengthen the time required for warm up between tests.
- c. Do not blow smoke, saliva or other contaminants into the mouthpiece, as the sensor may become damaged.
- d. Do NOT use AL1100F as a tool to drink and drive.
- e. Keep out of extreme temperatures and out of the reach of children.
- f. To maintain accuracy, we recommend recalibrate the unit at least once every 6 months, or if damaged by improper testing or handling.

Warranty

The manufacturer warrants the product to be free from defects in workmanship or material (excluding calibration) under normal use for six (6) months from the date of purchase. The manufacturer's obligation under this warranty is limited to replacing, adjusting or repairing the unit if returned along with proof of purchase. This warranty is void if the unit has been tampered with or maliciously damaged.

Recalibration & Service

For recalibration and technical support, please contact us at: