AlcoBoy The ideal breathalyzer for personal use



- Electro-chemical fuel cell sensor for improved result accuracy
- Button-less operation, auto start-up & shutdown
- Packed with disposable one-way mouthpieces
- Rechargeable lithium-ion battery accommodates up to 200 tests
- LCD displays specific readings and alcohol warning
- Smallest fuel cell breathalyzer in the market
- Supports bluetooth data transfer, mobile equipment connection (tentative)



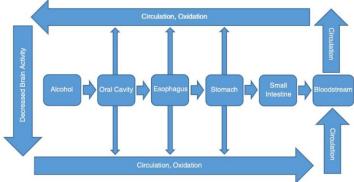


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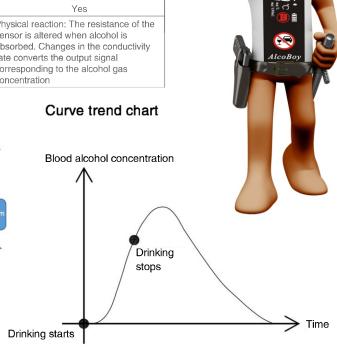
Difference between Electrochemical fuel cell sensor & Semiconductor sensor

Type	Electrochemical Fuel Cell Sensor	Semiconductor Sensor
Accuracy	High	Low
Sensitivity to alcohol	High	Low
Response time	Fast	Slow
Drive circuit	Advanced	Basic
Field of application	Personal – evidential	Personal
Sensor cost	Expensive	Cheap (1/100 of fuel cell sensor)
Reaction of other substances		
accompanying breath	No	Yes
Operating principle	Chemical Reaction: An electric current is produced due to the electric charges formed by mixing alcohol and the fuel cell. Alcohol concentration is derived by measuring the current output.	Physical reaction: The resistance of the sensor is altered when alcohol is absorbed. Changes in the conductivity rate converts the output signal corresponding to the alcohol gas concentration

Diagram of alcohol circulation



- Things to note during test:
- 1.Use the breathalyzer 30 minutes after drinking for more accurate reading.
- 2.Blow at a steady pressure.
- 3.Device displays real-time alcohol concentration, so discrepancies are present when testing at different time intervals.
- 4.Re-calibration of device is needed after 1-year usage.





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	Specifications	
Measuring mode	Active	
Measuring range	0.00-0.50mg/L (BrAC) or 0-120 mg/100 ml (BAC)	
Measuring accuracy	BrAC: 0.00-0.20mg/L,+0.03mg/L; > 0.20mg/L, +20%.	
	BAC: 0-44mg/100mg,+6mg/100mg; > 44mg/100mg,+20%	
Recovery time	<5s if the preceding test result is below 0.10mg/L	
Sensor type	Envisen type series electrochemical fuel cell	
Cross sensitivities	Negligible for other substances, e.g. propanol and carbon monoxide	
On <mark>/Off mode</mark>	Remove cap to power On, replace cap to power Off after 2s	
Keypads/Buttons	None	
Display	LCD display screen with alcohol alert (red) indicating NO DRIVING	
Audio buzzer & beeper	Conforms to standards, emitting beeps indicating beginning and	
	completion of test	
Battery capacity	3.7V/320mAH Lithium ion battery	
Interface	Micro USB/5V/1A	
Nu <mark>mber of te</mark> st per full	Approx. 200 times, depending on ambient factors	
charge		
(L x W x H) Dimension	119.5 x 26 x 14 mm	
Weight	Approx. 42g (Device)	
Operating temperature	10°C ~ 40°C	
Storage temperature	-20°C ~ +70°C (Preferred temperature: 25 Deg celsius)	
Operating pressure	600 ~ 1400 hPa	
Operating humidity	5% ~ 98%	