

Breath Alcohol Detector

User Manual



**Please read this manual before switching the unit on.
Important safety information inside.**



Breath Alcohol Detector User Manual



Contents	Page
1. Introduction.....	4
2. Features.....	4
3. Front Panel Description.....	5
4. Indicator.....	5
5. Specification.....	6
6 Powering the Meter.....	6
6-1. Powering the Meter.....	6
6-2. Auto Power Off.....	6
7. Operation.....	7
7-1. Test Breath Alcohol Concentration.....	7
7-2. Parameter Settings.....	7
7-3. Shortcut Key.....	8

1. Introduction

This breath alcohol detector is a special instrument for testing breath alcohol concentration, using the fuel cell alcohol sensor with high sensitivity and repeatability. The operation is simple. The user only needs to blow the tube, then the instrument can automatically measure. The inside of the instrument is provided with multiple national drunk driving standard, when measured breath alcohol concentration exceeds a predetermined value, the instrument will automatically make an audible and visual alarm. The instrument with backlight LCD display and intuitive clarity, is structural compact, portable and easy to use. This is a reminder for your safe travel

2. Features

- Alcohol sensor of fuel cell type , high accuracy and reliability
- Short warm up time, fastest response and recovery time, convenient and fast detection
- Magnificent man-machine interaction interface
- Two acousto-optic alarm for drink and drunkenness
- Blowing interruption indication
- Five selectable detection unit (mg/L,mg/100ml,g/L,%BAC,%oBAC)
- Blowing nozzle design with disposable backflow preventer, health and security.
- Rechargeable Li-battery with high capacity
- Real time display
- Auto power off

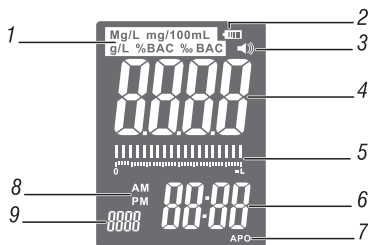
3. Front Panel Description

- 1-Blowing Entrance
- 2-LCD Display
- 3-Up Button
- 4-ON/OFF Button
- 5-Down Button
- 6-AC Adapter Interface



4. Indicator

- 1-Unit Symbol
- 2-battery Indication
- 3-Buzzer Symbol
- 4-Display for Alcohol Concentration
- 5-Blowing Analog Instruction
- 6-Real Time Display
- 7-Auto Power Off Indication
- 8-AM/PM Indication
- 9-Country Code




5. Specification


Sensor	Professional fuel cell sensor
Range	0 to 2.500 mg/L 0 to 0.500%BAC 0 to 500 mg/100ml
Accuracy	$\pm 0.020\text{mg/L}$ <0.400mg/L $\pm 5\%$ 0.400 to 1.000mg/L $\pm 20\%$ >1.000mg/L
Response Time	$\leq 5\text{s}$
Resolution	0.001% BAC
Operating Temperature	0°C to 40°C
Storage Temperature	-10°C to 60°C
Power Supply	Rechargeable battery
Battery Charge Time	About 2 hours with AC adapter
Weight	584g.
Size	240mm×160mm×100mm

6 Powering the Meter

6-1. Powering the Meter

6-1-1. Press the  button to switch on the meter.

6-1-2. If the instrument displays , it indicates the low voltage or is unable to power on the meter. Please connect to the power source to recharge the battery, then the instrument can work normally.

6-1-3. Pressing the  button and holding for about 3 second to switch off the meter.

6-2. Auto Power Off


The meter enters sleep mode after 5 minutes of inactivity. Press any function button to prevent the meter from powering off. The time of auto power off is then reset.

7. Operation

7-1. Test Breath Alcohol Concentration





After opening the instrument, the main display shows "0" symbol flickeringly in turn, then tester can start blowing. Testers need to take a deep breath at this time, and exhale to the blowing tube. At this time, the instrument's LCD would have shown the simulated instructions. When blowing enough, simulation will be full of LCD, with blowing time of about 3 seconds; when blowing time enough, instrument's screen displays "----". Now you can stop blowing, The meter begin to analyze exhaled gas concentrations of alcohol. If flow rate of blowing gas is insufficient or lack of time, the instrument will return to the original interface, reminding the user to measure again.

After testing out an alcohol concentration data, we need to wait for about 1 minute to automatically jump back to the initial screen. At this point, the LCD will display "0" sign, and flash in order to remind the other user to start measuring.




A quick measurement can be achieved under 1 minute, i.e. pressing the  button can return to the original measurement interface to begin next measurement. (This kind of operation is not recommend generally)

7-2. Parameter Settings







7-2-1. Country Code Setting

The country code is shown on the bottom left. Under the power-on interface, pressing  button and holding for 3s will enter setting mode of the country code, such as "01" start flashing, The screen shows the country code corresponding to the standard of drunken driving, press  or  button to adjust. There are 15 corresponding countries as total as attachment 1. Finish adjusting and press the  button to enter the next setting.




7-2-2. Unit Setting

Under unit set mode, the unit symbols, such as "mg/100 mL" will flash, main interface displaying national drunk-driving standards. Pressing  or  button to adjustment, there are five units to choose from, Finish adjusting and press the  button to enter the next setting.



7-2-3. Date and Time Setting

Date & time setting mode, real time clock starts blinking, first minute part flashing, press  or  adjustment, Finish adjusting and press the  button to enter hours. The hour part will flash, pressing  or  to adjust. Finish adjusting and press the  button to enter the next setting.

7-2-4. 12 hours / 24 hours Switching System

Under this mode, the main display shows "24 H" or 12 "H", pressing  or  to have a switch, and real time clock can also switch to 12 hours and 24 hours format. Finish switching and press the  button to get back to the initial state, waiting to be measured.

7-3. Shortcut Key

There are two shortcut keys. In the main interface mode, press the  button to switch the alarm or not, press the  to switch different units directly.

Note:

- 1-The instrument should not be stored or used in environments containing corrosive gases
- 2-In order to measure accurately, begin testing about 15 minutes after drinking

Attachment 1.(Data just for reference)

Serial NO.	Country Code	Country Code
	Europe	
1	Albania	14
2	Austria	06
3	Belarus	06
4	Belgium	06
5	Bosnia	06
6	Bulgaria	06

Serial NO.	Country Code	Country Code
7	Croatia	15
8	Czech	15
9	Denmark	06
10	Estonia	13
11	France	06
12	Finland	06
13	Germany	06

Serial NO.	Country Code	Country Code
14	Gibraltar	06
15	Greece	06
16	Hungary	15
17	Iceland	06
18	Ireland	03
19	Italy	06
20	Latvia	13
21	Liechtenstein	03
22	Lithuania	09
23	Luxembourg	06
24	Malta	03
25	Netherlands	06
26	Norway	13
27	Poland	13
28	Portugal	06
29	Moldova	12
30	Romania	15
31	Russia	13
32	Serbia	06
33	Slovakia	15
34	Slovenia	15
35	Spain	06
36	Sweden	13
37	Switzerland	06
38	Turkey	06
39	Ukraine	15
40	Britain	03

Serial NO.	Country Code	Country Code
	American Countries	
41	Argentina	06
42	Belize	03
43	Bolivia	04
44	Brazil	05
45	Canada	03
46	Chile	07
47	Columbia	09
48	Costa Rica	07
49	Cuba	15
50	TheDominican Republic	06
51	Ecuador	04
52	El Salvador	06
53	Guatemala	03
54	Guyana	14
55	Honduras	03
56	Jamaica	10
57	Mexico	03
58	Nicaragua	03
59	Panama	15
60	Paraguay	03
61	Peru	08
62	Surinam	03
63	America	03
64	Uruguay	03

Serial NO.	Country Code	Country Code
65	Venezuela	06
	Africa	
66	Algeria	14
67	Benin	06
68	Cape Verde	03
69	The Central	03
	African Republic	
70	Comoros	–
71	Congo	--
72	Equatorial Guinea	15
73	Eritrea	15
74	Ethiopia	--
75	Gambia	15
76	Ghana	03
77	Guinea	15
78	Kenya	03
79	Malawi	15
80	Mauritius	06
81	Namibia	06
82	Niger	03
83	Nigeria	15
84	Seychelles	03
85	South Africa	06
86	Togo	–
87	Uganda	03

Serial NO.	Country Code	Country Code
88	Tanzania	06
89	Zambia	03
90	Armenia	15
91	Azerbaijan	15
92	Georgia	12
	The Middle East	
93	Egypt	06
94	Iran	15
95	Israel	06
96	Jordan	15
97	Kuwait	15
98	Saudi Arabia	15
	East Asia	
99	China	13
100	Japan	15
110	Korean	06
	The Western Pacific	
111	French Polynesia	06
112	The Federated states of Micronesia	06
113	New Zealand	12
114	Palau	14

Serial NO.	Country Code	Country Code
	Central Asia	
115	Kirghizia	06
116	Mongolia	13
117	Turkmenistan	11
	South Asia	
118	Pakistan	15
119	India	12
120	Nepal	--
121	Sri Lanka	05
	Southeast Asia	
122	Cambodia	06
123	Laos	--
124	Malaysia	03
125	The Philippines	06
126	Singapore	03
127	Thailand	06
128	Indonesia	—

Breath Alcohol Detector User Manual

Rev. 131217

