Breathalyzer Dingo AT-1000
User Manual

INTRODUCTION

This device is a breath alcohol tester designed to measure the presence of alcohol in the body. Please make sure to read this manual thoroughly before use.

DO NOT DRINK AND DRIVE

Part names

Breath out (Do not cover)

Mouthpiece

Display Window

On/Off

Battery Compartment Cover (Back)

Dingo
AT-1000

8.88

Green LED will turn on when the device is ready for a test. It will light up when the test result is below the warning level.
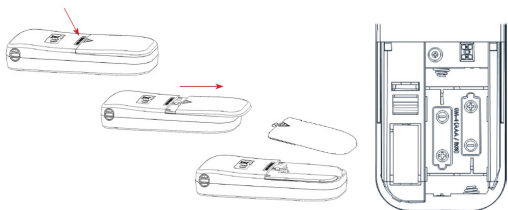
Yellow LED will flash when the battery voltage is low.
Replace 1.5V Alkaline Batteries.

If the result is over 0.30‰/ 0.15mg/l / 0.03%, the Red LED will light up.

BATTERY REPLACEMENT

Apply a small amount of pressure on the battery cover located on the back of the unit and push down and away from the unit to release the cover.

See the following diagram.

* N.B. Make sure to insert the battery with the proper position of the positive(+) and negative(-) terminals as indicated.

OPERATION

1. Insert a mouthpiece into the mouthpiece inlet.
2. Push the ON/OFF power switch that is located on the right side under the display window.

- The unit will show "888" figures firstly and "on" along with a welcome sound. And then it starts countdown which will last approximately 15 ~ 35 seconds. This warm-up process prepares the sensor and circuit for testing.

3. When you hear a beep sound & "bLo" display is on, please blow steadily for 5-6 seconds into the mouthpiece until you would hear the "Beep" sound again. Stop blowing.

- In this stage, if you don't blow within 20 seconds, the device will automatically turn off. Try to power on again.

4. After the circling line is on the display for 3 ~ 22 seconds, the test result in the selected unit (factory setting-ppm (‰ or g /l) ie, grams of pure ethanol per liter of blood) will be displayed for 20 seconds along with beep sound.

- If the test result is above 0.30‰ / 0,15 g/l/ 0.03% BAC (default setting), Red LED will light up along with "Alarm" sound.

- The result will be displayed for 20 seconds. (Result display along with Green or Red LED on for the first 15 seconds and LED off for another 5 seconds).

- If you push the power switch when the Green or Red LED is off, the unit goes back to countdown stage for another test.

5. After 20 seconds the unit will show "OFF" and turn off automatically along with a sound.
6. For the successive testing, repeat steps 2-4.
7. Space tests at least 2 minutes apart.

   *After using, you can turn the device off by pressing the power switch for 2 sec.

Indications of alcohol tester 0.30 g / l (per mille, ‰) corresponds to the concentration of alcohol in the breath of 0.15 mg / l. To convert the results in units of mg / l one should divide obtained value in per mille by a factor of two.

PACKAGE

The complete set: the device, mouthpiece 5 pcs., AAA battery 2pcs, user manual.

SPECIFICATIONS

Sensor technology	Fuel Cell sensor
Blowing time	5-6 seconds
Test type	With mouthpiece
Select alcohol unit	‰ (mg/L, %,)
Accuracy	+/- 0.05‰ in range 0.00-0.50 ‰+/- 0.005% BAC in range 0.00-0.050 % BAC
Detection Range	0.00 ~ 4.00‰ (Per mille, g/l) 0.00 ~ 2.00 mg/l 0.00 ~ 0.40% BAC
Discrete scale	0.01‰ (0.005 mg/L or 0.001%BAC)
The minimum concentration of alcohol	0,06‰ (0.03 mg/L or 0.006%BAC)
Warm-up time	15 ~ 35 seconds
Response time	3 ~ 22 seconds
Working temperature	5°C ~ 40°C (41~104°F)
Storage temperature	0°C ~ 40°C (32~104°F)
Power supply	Two 1.5V "AAA" size Alkaline Batteries
Battery life	Approximately 500 tests
Dimensions	114mm x 47mm x 24mm
Weight	62 g, (84g Battery included)
Calibration	Once a year or after 500 tests
Warranty	1 Year Limited Warranty

ERROR (WARNING) NOTIFICATION

Error Message	Cause and action	Error Message	Cause and action
0.50	If the result is higher than 0.30‰ Per mille (0,15 mg/l BrAC or 0.03%BAC) the "X" indication is displayed along with "ALARM" sound.	**bAt**	The battery voltage is too low to perform a test. The device will turn off automatically after showing this signal. Replace 1.5V Alkaline Batteries.
Hot	If the result is above 4.00‰ Per mille (2.00mg/l BrAC or 0.40%BAC), "Hot" signal is displayed along with alarm sound.	**FLo**	The user had a short exhale time during the test, which likely means the user did not exhale steadily and continuously for at least 5~6 seconds. Push the power button to perform another test.
CAL	When the test number since last calibration is over 500, the unit shows "CAL". Even if the unit still works, it is required the re-calibration. Consult to the seller or local distributor for the service.	**OUt**	When the ambient temperature is out of working temperature range (5°C ~ 40°C) the unit shows "OUT" and then turn off. Keep and use the unit within the recommended temperature range.

PRECAUTIONS

1. Certain substances can interfere with the result. For a reliable result wait at least 20 minutes after drinking, eating or smoking before taking measurement. Not observing this waiting period can cause inaccurate readings and damage the sensor.

2. Blood alcohol content increases during up to one hour after the last alcohol ingestion.

3. Avoid testing under strong wind or in a closed room with contaminated air.

4. Do not blow cigarette smoke, food or liquid into the instrument because this may damage the sensor.

5. Never store the device in the presence of corrosive gas.

6. Never store the device exposed to direct sunlight.

7. Correlation between breath alcohol content and blood alcohol concentration depends on many variables, including environmental factors (such as air quality, wind, humidity, temperature, etc.) and health conditions of the test subject.

8. For power supply use only alkaline batteries.

9. Mouthpiece is for personal use only. For each second measurement use new mouthpiece.

10. In normal use, Dingo AT-1000 requires re-calibration after every 500 tests or once a year to preserve the accuracy of readings. Speak to local distributors for re-calibration.

11. Do not use this unit as a tool to determine whether you or anyone else should operate any motor vehicle or machinery.

12. You cannot use the results of this unit in court of law. The results of the test can in no case be opposed to those obtained at the time controls by the police force.

13. An individual's testing result can continue to increase or decrease over time, depending on many factors. Obtaining a testing result reading at one time does not mean the testing result reading will be the same even a few minutes later.

14. Do not let yourself or anyone else drink and drive. Always use a designated driver when you or anyone else drinks alcohol.

15. Sensor life and accuracy of the readings are significantly reduced when:

a) exceeding the alcohol concentration limit of the device
b) using the device for mass checks

MAINTENANCE AND REPAIRS

Technical maintenance of the analyzer is performed to achieve a constant functionality and operational readiness. Alcohol tester Dingo AT-1000 is available for sale with factory calibration, which is produced using special equipment. During operations, the alcohol sensor of device erodes, which leads to a gradual increase in the measurement error. To restore the accuracy, you need to periodically reconfigure the alcohol tester in a qualified service center. The frequency of maintenance depends primarily on the intensity of use of the device. On average, it is necessary to make adjustments after every 500 tests, or once a year.

WARRANTY

Manufacturer warrants for 1 year the product to be free from defects in workmanship or material (excluding calibration) in normal service from the date of purchase.

Manufacturer's obligation under the warranty is limited to the replacement, adjustment, or repair of the unit if returned along with proof of purchase.

This warranty is void if the unit has been tampered with or maliciously damaged.

Personal alcohol indicator Dingo AT-1000

Manufacturer: ARIDES LLC, 0064, Armenia, Yerevan, 111 Raffi street, www.arides.am

Information about technical service locations is available on the website: www.arides.am

Serial Number	
Date of Sale	

Seller's signature

CALIBRATION AND RECORD

Calibration Date	Type of technical service	Remarks