



MODEL: Mercury

Instruction Manual

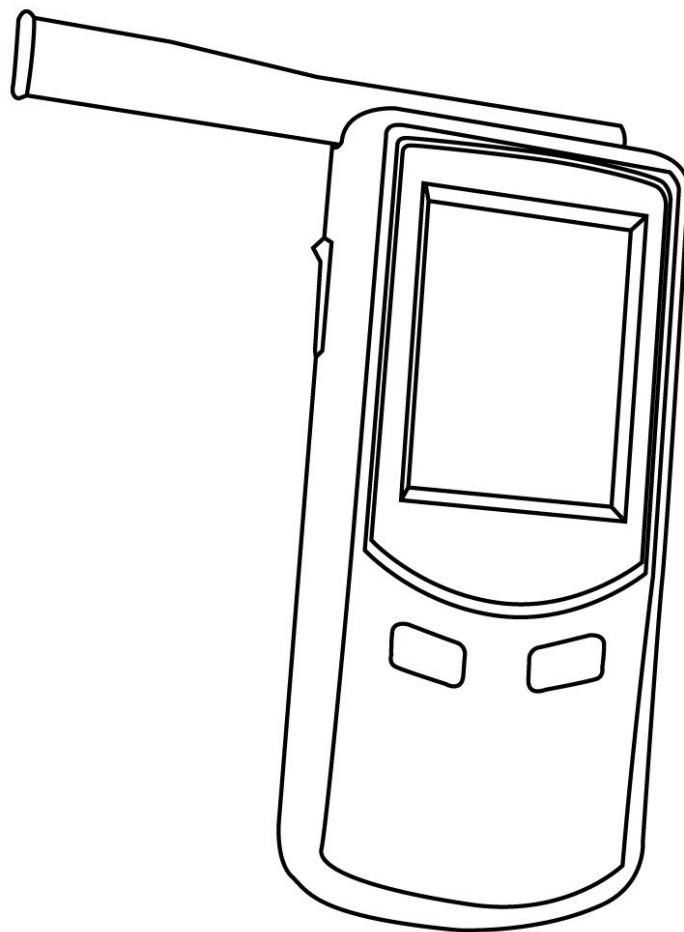
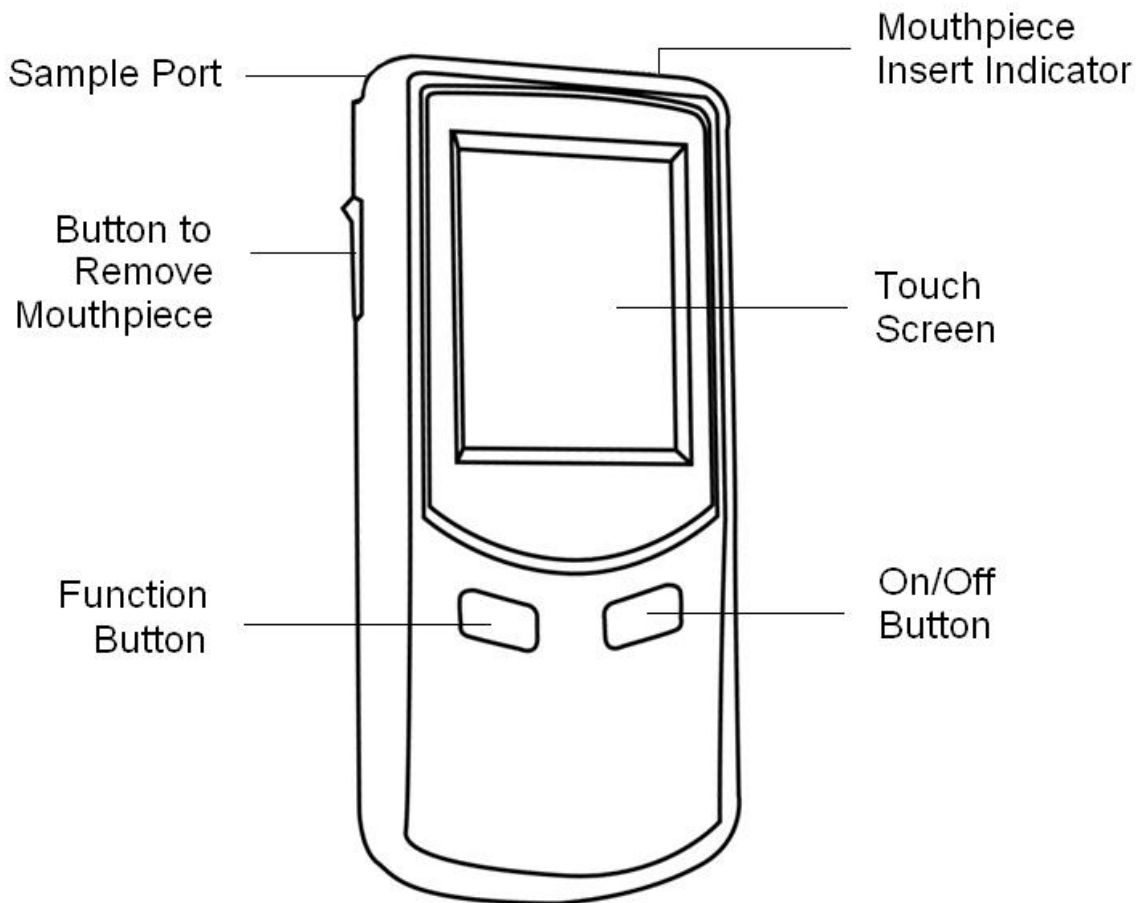


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STRUCTURES



Operator needs to read operation manual and familiar with the operation before using. Retain the manual for future reference.

INSTRUMENT FEATURES

PLEASE REFER TO DIAGRAMS ON PAGE 1

1. DISPOSABLE MOUTHPIECE

For sanitary reasons, each mouthpiece is individually packed and sealed. A new mouthpiece should be attached to the sample port for each test to prevent any contamination from the previous sample.

2. SAMPLING CUP

The Sampling Cup is reusable. Attach the sampling cup to the sample port. Do not touch the sampling cup with your mouth while providing a breath sample. Remove the sampling cup after use and clean it with alcohol for next use.

3. BUTTON TO REMOVE MOUTHPIECE

For sanitary reasons, the mouthpiece can be removed by pushing the button underneath the mouthpiece.

4. TOUCH SCREEN DISPLAY

A touch screen display that will display corresponding instructions and alcohol concentration of the subject being tested. Select the icons and buttons on the screen by using the stylus pen provided.

5. ON/OFF BUTTON

Press and hold the On/Off button to turn on or turn off the device.

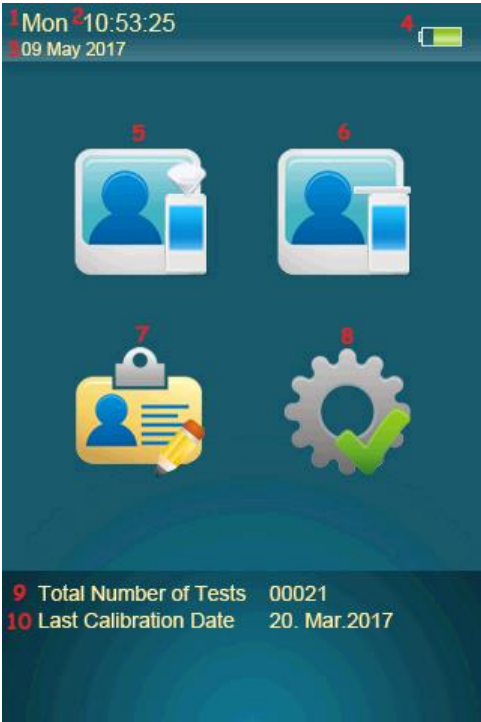
6. EXTERNAL POWER CONNECTORS

Connectors for 12V to 6V car (cigarette) adapter.

7. USB connector

Use a USB cable to upload test records stored in the memory and upgrade the software.

ICON DESCRIPTION



1	Weekday Indicator	6	Standard Test
2	Time Indicator	7	Test Records
3	Date Indicator	8	Setting
4	Battery Indicator	9	Total Number of Tests
5	Screening Test without Input	10	Last Calibration Date



Previous Screen/Cancel



Next Screen/Confirm



Main Screen



Bluetooth Connected



Print



Repeat Test

TOUCH SCREEN CALIBRATION

If the touch screen is not sensitive enough, please calibrate the screen. Press and hold the On/Off button (right button) and then press the Function button (left button) immediately. Follow the instruction on the screen to calibrate the screen.

INTRODUCTION

It is a state of the art instrument used to detect Ethyl Alcohol from a valid breath sample. It uses an electrochemical fuel cell to measure the concentration of alcohol from the sample of the expired breath from a human subject. If alcohol is present, a corresponding voltage is generated from the fuel cell, which is proportional to the alcohol content of the sample provided by a human subject. This voltage is then sent to the CPU and converted to a subject's BAC which is then displayed.

Instrument Features:

1. Test record storage is more than 16,000 entries depending on the length of the records being stored. Capability of uploading test records for record keeping.
2. Use disposable mouthpieces or sampling cups to prevent foreign matter from entering.
3. A plastic case is included for storing the device and accessories for easy transport. When not in use, the device and accessories should be stored in this plastic case to prevent damage.
4. Ability to run as often as needed. Recovery time between tests on average is 30 seconds between positive tests.
5. Powered by 4 AA alkaline batteries. Batteries are located behind the sliding cover on the back of the device. The level of power left in the batteries is indicated on the screen. A cigarette plug adapter is also included for use by the operator.
6. Storage temperature range is -25°C to 70°C, storage humidity is 15% to 90%, inappropriate storage of the device will shorten the lifespan of the fuel cell sensor.



OPERATING INSTRUCTIONS

Pre-test Conditions

1. Operating temperature range is -10°C to 50°C. Use within this temperature range will limit condensation from a subject breath to insure an accurate reading from a breath sample.
2. It is recommended that the operator to observe a subject for about 20 minutes before administering the breath test to insure that nothing is consumed or expelled from the mouth of the subject. Following this procedure will eliminate reading from mouth alcohol.




Standard Test with Input

1. Attach a disposable mouthpiece onto the sample port.
 2. Input information by a stylus pen.
- NOTE:** Maximum 16 characters for each input.
3. When displays “Please Blow”, take a deep breath and blow until BEEP tone stops.
 4. Test result displays on the display.
 5. If printer is using, select  to print the test result.
 6. Select  to start another test.
 7. If testee did not blow within 30 seconds, tester can select “Refuse” to confirm the testee refused to do the test; or select “Test Again” to allow testee to do the test again.
 8. If testee failed to give a valid breath sample, tester can select “Discontinue” to confirm; or select “Test Again” to allow testee to do the test again.
 9. A passive test can be performed by select “Passive” during the testee is blowing.
 10. Push the button underneath the mouthpiece to remove the mouthpiece.
 11. 16,000 test records can be stored, if memory limit is reached, new test is not available. Send the device to service centre to upload test results to PC, and clear out all memories and use it again.



Screening Test




1. Attach a sampling cup onto the sample port.
2. When displays “Please Blow”, take a deep breath and blow to the sampling cup until BEEP tone stops.
3. “Alcohol Detected” or “No Alcohol” displays on the display.
4. A passive test can be performed by select “Passive” during the testee is blowing.
5. Select  to start another test.
6. If “Alcohol Present”, use mouthpiece to perform a standard test to obtain an accurate test result with reading.

NOTE: Screening Test is only used for screening tests, it is to check whether alcohol is found in the breath sample. An accurate test result can only be obtained by standard test.

NOTE: Test records of the screen tests cannot be printed nor stored.



Test Record

1. 16,000 test records can be stored, depending on the length of the records.
2. Individual test record can be printed by selecting .
3. Use  or  to move to the previous or next record.




Setting



1. Date & Time

Set correct Date and Time and Select “Update” to confirm.

2. Auto Off

Select time limit to turn off the device automatically, select  to confirm

3. Print

- i. Select “Auto Print” to print the result automatically after each test without selecting  manually.
- ii. Select number of printout copies needed and Select  to confirm.

4. Cali

- i. When the screen displays “Calibration Needed”, send the device for calibration.
- ii. A password is needed for calibration to ensure calibration is performed by eligible persons. Please refer to Calibration Instruction.

5. Advanced Setting

- i. Only legitimated persons are allowed for advanced setting.
- ii. Please refer to Advanced Setting Instruction.

6. **Brightness:** Adjust the brightness level of screen.

7. Bluetooth

- i. If the new Bluetooth printer does not match the device automatically, go to Bluetooth Setting and match it manually.
- ii. Turn on the Bluetooth printer
- iii. Select “Match”, and wait until the Module shows “Bluetooth” and State shows “Working”
- iv. A Bluetooth sign also shows in the main screen.
- v. If the same printer is using with the same device next time, no need to match the Bluetooth again, they will match automatically.

8. GPS

- i. The GPS option only available when the device has the GPS module.
- ii. Longitude and Latitude of location of the device will be shown.
- iii. Longitude and Latitude of the test is stored and printed on the printout.
- iv. Select “Print GPS” so GPS result will be printed on the printout.

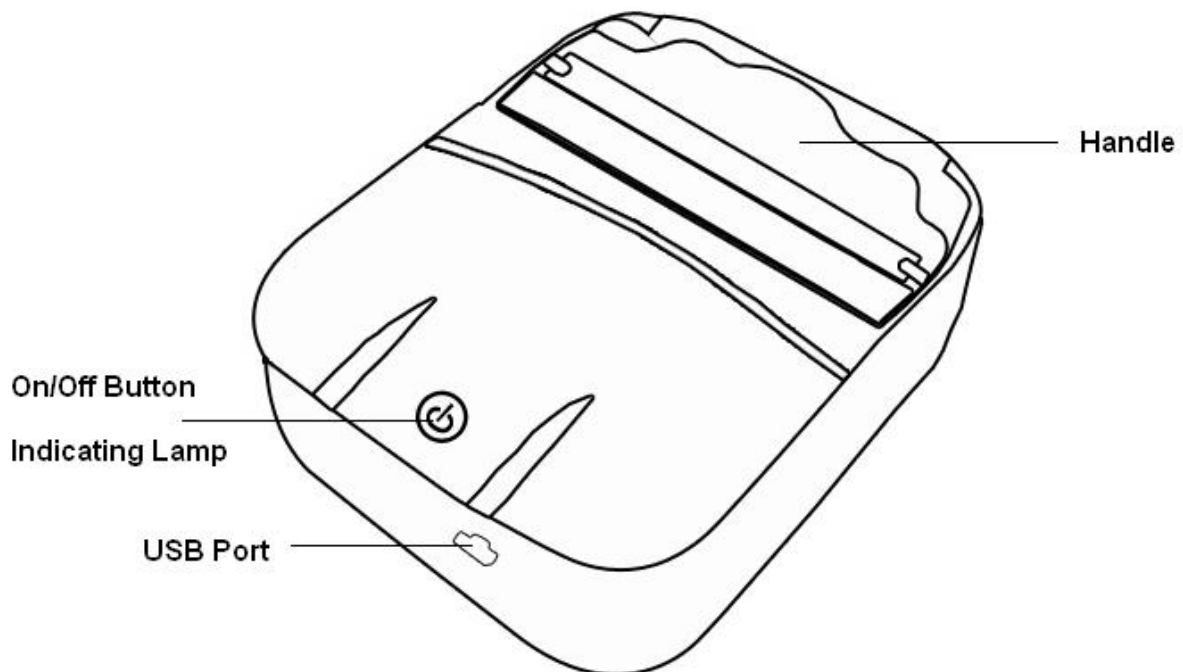
NOTE: GPS system only functioned 5-10 minutes after turn on the device. It can only receive signal in open area. If there is no GPS signal, the Longitude and Latitude will not be shown on the printout.

9. Keyboard

Disselect “Keyboard” to disable the keyboard.

PRINTER

A Bluetooth thermal printer can be used with the device.



PRINT

If a printer is equipped, press the ON/OFF button on printer, and the indicating lamp should turn on. If an alcohol tester with the print feature is used, make sure the S/N number on the printer is the same as the tester. To turn off the printer, press and hold the ON/OFF button on printer until the indicating lamp flash and off.

INSERT PAPER

Pull the handle. When inserting a new roll of paper, make sure glossy side of paper is kept close to dentation.

NOTE: If nothing can be printed, change the side of the paper and try again.

BATTERY

Use a lithium battery with capacity of 2000 mAh. A charger is provided. The charger can be powered by the car battery with a 12V adapter provided.

STANDARD TERMAL PAPER SIZE

6cm X 630cm



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