


KETOSCAN^{SMART}


Multi Use Breath Analyzer





Instruction manual


1 Precaution


 Do not use water, alcohol or chemicals to clean device, gently wipe with dry cloth or towel.

 The sensor inside the device must be replaced after 300 tests or once a year, whichever comes first.
The device will lock after 300 tests (while using device without mobile app) and 320 tests (while using mobile app). Once this happens, please buy new sensor module from the place of purchase of the device.

 The accuracy of the sensor can diminish if not used for over 6 months. In this case, please buy new sensor module from the place of purchase of the device.

 There can be influence to the results when drink beverage such as coffee, juice and so on excluding water and eat food or smoke or brushed the teeth (Including mouthwash) within 30 minutes before the measurement.

 Consuming alcohol before testing will affect results, wait at least 24 hours for alcohol to leave your system before testing.

 Consult a specialist or doctor if the test results exceed 80 ppm continuously.

2 Components

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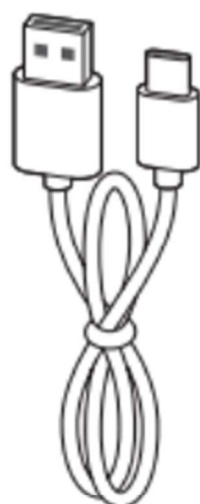
Ketoscan Smart



Aluminum pack



Portable pouch



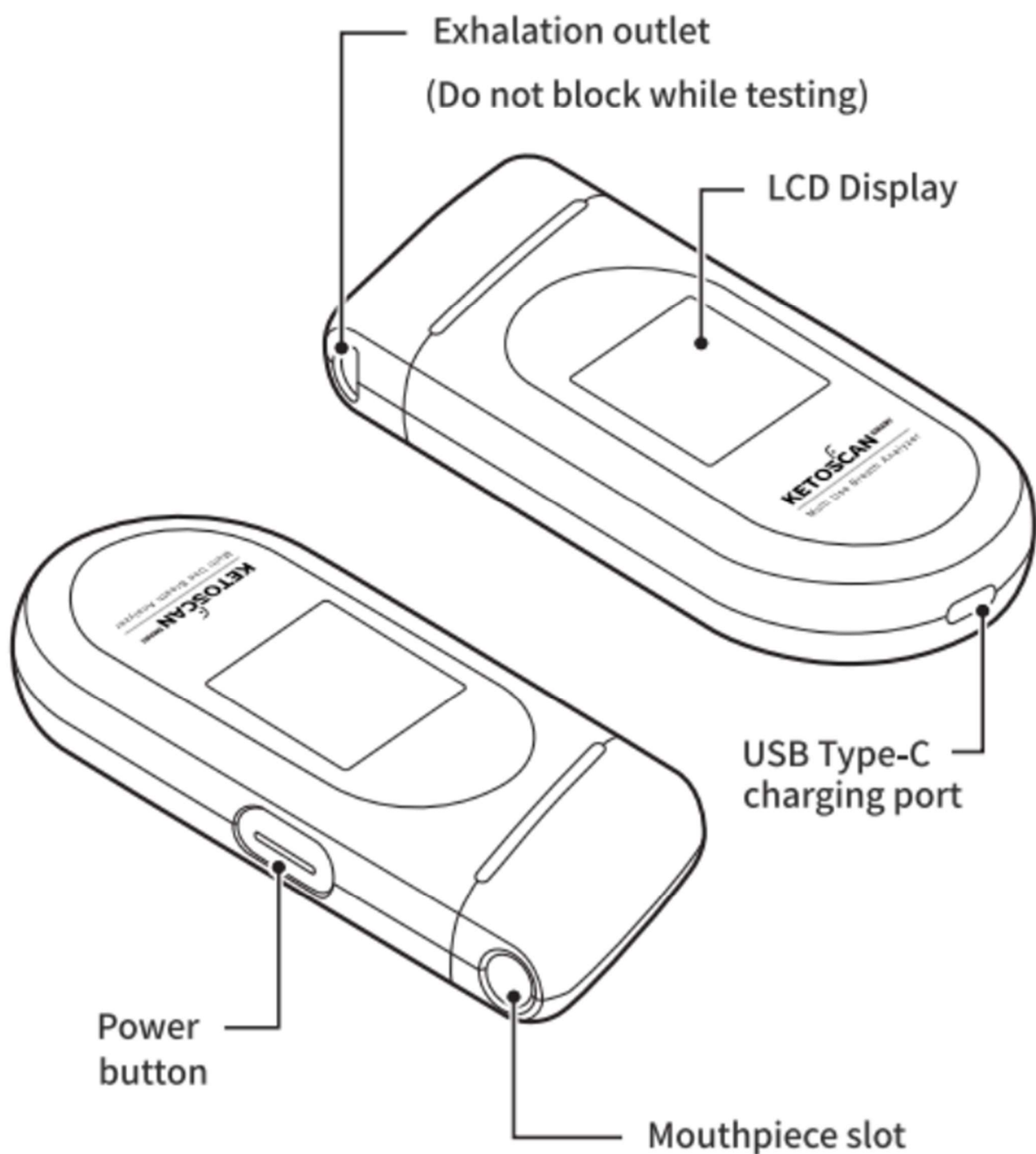
USB Type-C cable



5 pcs of mouthpieces

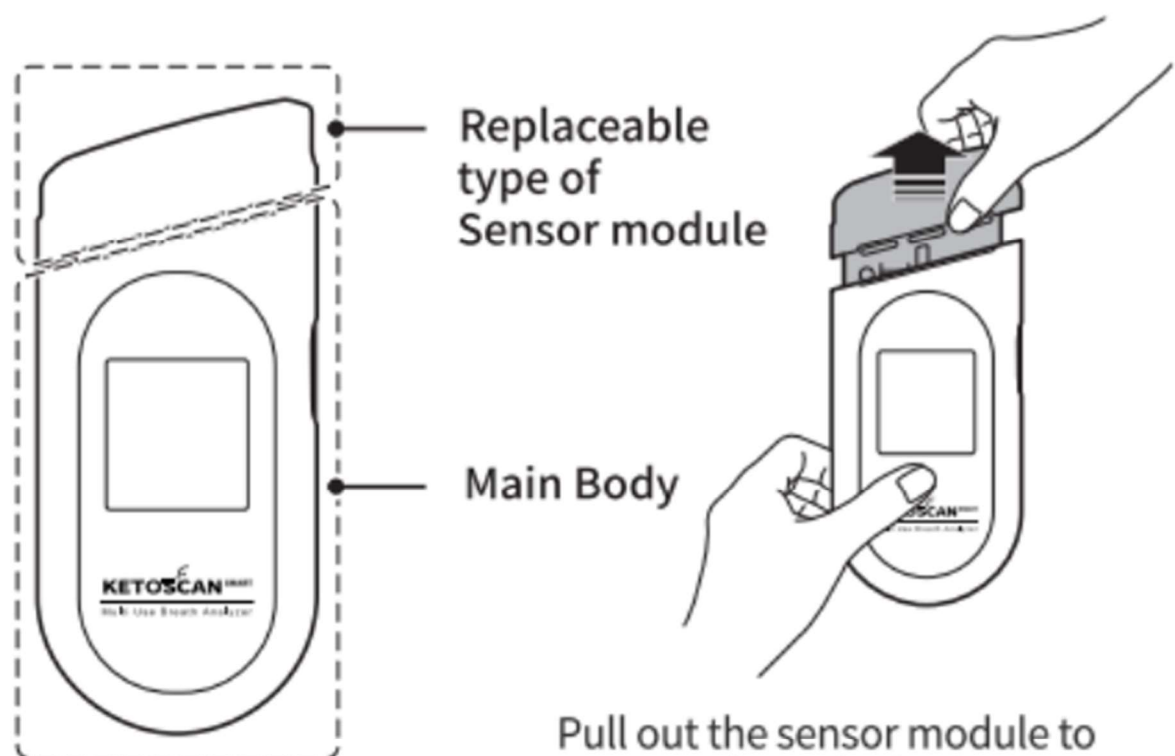
3 Product Description

KETOscan SMART



4 How to replace the sensor module

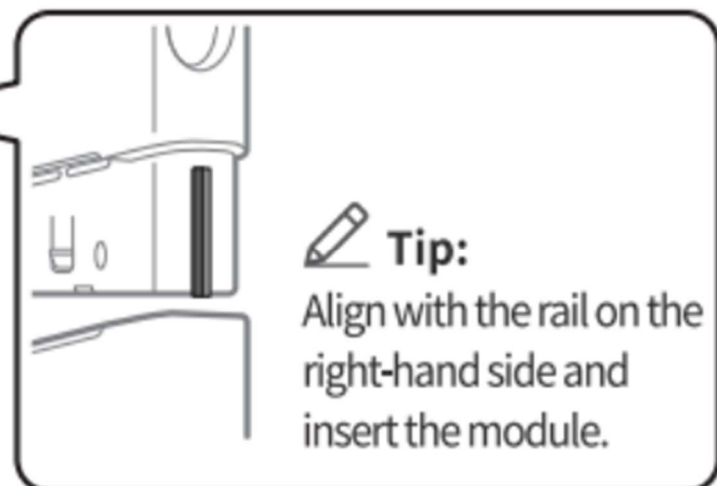
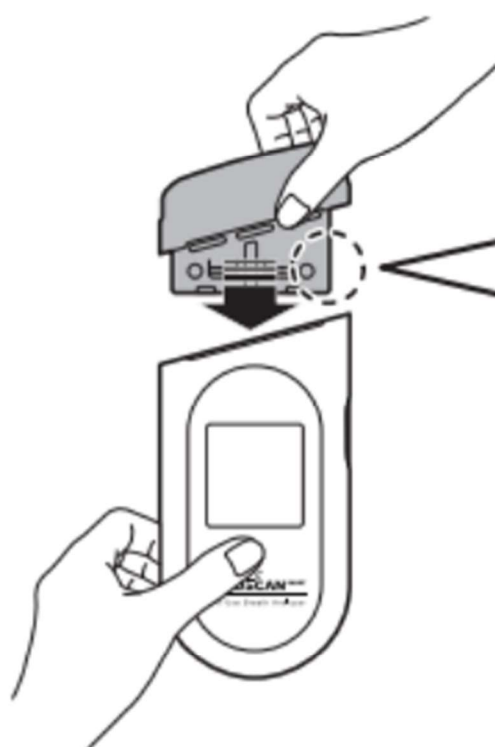
KETOscan^{SMART}



Pull out the sensor module to separate from the body.


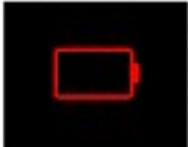





CAUTION!

Make sure the power off the device before replacing the sensor module.



Install the module by gently pressing downward into the main body.

5 Display Message

Display	Display
	Breath sampling error Insufficient breath sample, wait for device and retest.
	Low Battery warning Charge the device using the provided USB cable.
	Battery charging Message displayed while battery is charging.
	Charging complete Message displayed when battery is fully charged.
	Replace Sensor module Message alert when sensor module needs to be replaced, please buy new sensor module from the place of purchase of the device.
	Sensor error Message alert when sensor where sensor is damaged. please contact the place of purchase of the device.
	Bluetooth® mode The device is connected with KETOSCAN app.

6-1 How to use

How to Use Device Standalone

- 1 Insert the disposable mouthpiece.
- 2 Press and hold the power button for 2 seconds.
- 3 complete the "sensor conditioning test" by waiting for the countdown and blowing into the device to remove any built-up residue. after the OK display appears, proceed to the "main test" after the countdown.

Sensor conditioning test



Caution



Waiting time
countdown



Blow
into device



Analyze the
breath sample



Sensor conditioning
test completed

Main test



Waiting time
countdown



Blow
into device



Analyze the
breath sample



Result
displayed



What is 'Sensor conditioning test'?

Sensor conditioning test function is a patented technology for KETOSCAN device. This function will ask you to blow into the device clearing any residue or miscellaneous gases to ensure accuracy, which is followed by the main test.

How to use Mobile Application

- 1** Download app(KETOSCAN) from Google Play (Android) or App Store (iOS).
- 2** Turn on Bluetooth and location/GPS on phone.
- 3** While the KETOSCAN Smart device is on, load the mobile app on your phone, press "Pair Ketoscan", and select your device from the list.
- 4** Input required information and start testing.



Note

- Reattempt after network initialization when there are many connected Bluetooth devices in case of Android device.
- Create your ID& PW to log into the App for the data storage and recall even when logging on a different mobile device over time.

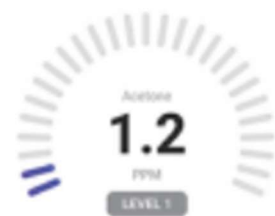
7 Level Guide



LEVEL 0 | 0.0~0.9ppm | The body fat burning rate 0 oz/hour (0 g/hour)

You are not in ketosis.

Body fat is not burning. Early ketosis starts at 2ppm.



LEVEL 1 | 1.0~1.9ppm | The body fat burning rate 0 oz/hour (0 g/hour)

You are just right before ketosis.

Body fat is negligibly burning. Early ketosis starts at 2ppm.



LEVEL 2 | 2.0~2.9ppm | The body fat burning rate 0.05 oz/hour (1.5 g/hour)

You are at very early stage of ketosis.

Body fat has just started to burn.

Proper ketosis level starts at 5ppm.



LEVEL 3 | 3.0~3.9ppm | The body fat burning rate 0.08 oz/hour (2.3 g/hour)

You are at early stage of ketosis.

Body fat is burning at a slow pace.

Proper ketosis level starts at 5 ppm.



LEVEL 4 | 4.0~4.9ppm | The body fat burning rate 0.11 oz/hour (3 g/hour)

You are at just blow proper level of ketosis.

Body fat is burning at a slow pace.

You enter Proper level at 5ppm.



LEVEL 5 | 5.0~5.9ppm | The body fat burning rate 0.13 oz/hour (3.8 g/hour)

You are at a reliable level of ketosis.

You are burning fat at a sub moderate pace.

Optimum level is 10ppm.



LEVEL 6 | 6.0~6.9ppm | The body fat burning rate 0.16 oz/hour (4.5 g/hour)

You are at a stable level of ketosis.

You are burning fat at a moderate pace.

Optimum level is 10ppm.



LEVEL 7 | 7.0~7.9ppm | The body fat burning rate 0.19 oz/hour (5.3 g/hour)

You are at a proper level of ketosis.

You are burning fat at a full to moderate pace.

Optimum level is 10ppm.



LEVEL 8 | 8.0~8.9ppm | The body fat burning rate 0.21 oz/hour (6 g/hour)

You are approaching the optimum level of ketosis.

You are burning fat at a moderate to faster pace.

Optimum level is 10ppm.



LEVEL 9 | 9.0~9.9ppm | The body fat burning rate 0.24 oz/hour (6.8 g/hour)

You are entering the optimum level of ketosis.

You are burning fat at an accelerated pace.

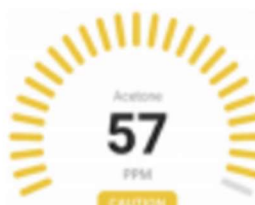
Optimum level is 10ppm.



LEVEL 10 | 10~40ppm | The body fat burning rate 0.25 oz/hour (7 g/hour)

You are in an optimum level of ketosis.

You are burning fat at a rapid pace. Be careful not to go over 40ppm.



Caution | 41~60ppm

You are approaching an excessive level of ketosis.

You are burning fat inefficiently.

Adjust your level to under 40ppm.



Danger | 60ppm~

Danger! High risk level of ketosis.

There may be a serious risk to health(ketoacidosis).

Please seek medical attention.



Note

It is possible to check the level guide at KETOSCAN dedicated app.

8 Product Specification



Sensor Type	High Resolution acetone gas sensor
Display Unit	PPM (Parts per million)
Measurement Range	0.0~99 PPM
Accuracy	Less than 5ppm +/- 0.5ppm // On or above 5ppm +/- 10% <small>*This rate is manufacturing-based and may vary depending on your environment in actual use.</small>
Battery charge cycle	More than 50 measurements
Analyzing Time	Within 4 seconds
Power Charge	USB Type-C 5V more than 500mA
Mouthpiece	Provided disposable mouthpiece or 7mm diameter straw
Sensor module replacement cycle	300 measurements <small>(The module is recommended for replacement every 1 year or 300 tests whichever comes first.)</small>
Storage Temperature	5°C ~ 50°C
Operational Temperature	10°C ~ 40°C
Certificate	US FDA Class 1 / KC / CE / FCC
Display	1.44-inch high brightness TFT-LCD
USB-C type Connector	The USB cable is for charging only and does not communicate data.
Etc.	Vibration motor installed for alarm



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FCC compliance information

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15

of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution : Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement : This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 5 mm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Limited ONE year warranty

Warranty coverage

SENTECH GMI Corp. warrants this product against defects in materials and workmanship under normal use for a period of ONE (1) YEAR from the date of retail purchase by the original end-user purchaser ("Warranty Period"). Except as provided in the preceding sentence or applicable law, SENTECH GMI Corp. provides this product "as is". If a defect arises and a valid claim is received by SENTECH GMI Corp. within the Warranty Period, at its option, SENTECH GMI Corp. will either (1) repair the product, (2) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product, or (3) refund the purchase price of the product. When a refund is given, the product for which the refund is provided must be returned to SENTECH GMI Corp. or Seller and becomes SENTECH GMI Corp. or Seller property. This warranty is limited to the original end-user purchaser and is not transferable to, or enforceable by, any subsequent owner.